Limit02_piecewise for No.9012

$$No1 = \left[f(x) = \begin{bmatrix} 5x-5 & x < 3 \\ 4-x & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 11-x & : & x <= 5 \\ 6 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 4 \\ 6 & : & x = 4 \\ 6 & : & 4 < x < 6 \\ 6 & : & x = 6 \\ 11-x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x-5 & : & x < 3 \\ 4-x & : & x >= 3 \end{bmatrix} \\ [\alpha = -5, \beta = -1, \gamma = 0, \delta = 6, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} x+4 & : & x < -5 \\ -4x-7 & : & -5 < x < 1 \\ -11 & : & x >= 1 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 7, \delta = 1, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -3, \gamma = 0, \delta = 2, \varepsilon = 12]$$

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Limit02_piecewise for No.9016

$$No1 = \left[f(x) = \begin{bmatrix} -2x-5 & x < -2 \\ 4x-2 & x >= -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x <= 2 \\ 4 & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 9-x & : & x < 5 \\ 4 & : & x = 5 \\ 4 & : & 5 < x < 8 \\ 2 & : & x = 8 \\ -6+x & : & x > 8 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x-5 & : & x < -2 \\ 4x-2 & : & x >= -2 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 2, \delta = 6, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x+7 & : & x < -1 \\ 5-x & : & -1 < x < 4 \\ 1 & : & x > 4 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -8, \gamma = -5, \delta = -4, \varepsilon = 3]$$

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Limit02_piecewise for No.9018

$$No1 = \left[f(x) = \begin{bmatrix} 3x-4 & x <= -3 \\ -4x+5 & x > -3 \end{bmatrix}, a = -3 \right]$$

| x |-3.2000|-3.1000|-3.0100|-3.0010|-3.0001|.. |a = -3|...|-2.9999|-2.9990|-2.9900|-2.9000|-2.8000|

$$No2 = \left[f(x) = \begin{bmatrix} -1+x & : & x <= 5 \\ 4 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 9-x & : & x < 3 \\ 6 & : & x = 3 \\ 6 & : & 3 < x < 5 \\ 4 & : & x = 5 \\ -1+x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x-4 & : & x <= -3 \\ -4x+5 & : & x > -3 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 2, \delta = 5, \varepsilon = -3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 1+x & : & x < -3 \\ -2 & : & -3 < x < 4 \\ -3x+6 & : & x >= 4 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -10, \gamma = 0, \delta = 2, \varepsilon = 3]$$

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Limit02_piecewise for No.9036

$$No1 = \left[f(x) = \begin{bmatrix} 6x-7 & x < 1 \\ -2x & x > 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 2 & : & x <= 4 \\ 7-x & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x & : & x < 5 \\ 4 & : & x = 5 \\ 4 & : & 5 < x < 8 \\ 4 & : & x = 8 \\ 12-x & : & x > 8 \end{bmatrix}, a = 8 \right]$$

| x |7.8000|7.9000|7.9900|7.9990|7.9999|.. |a = 8|...|8.0001|8.0010|8.0100|8.1000|8.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 6x-7 & : & x < 1 \\ -2x & : & x > 1 \end{bmatrix} \\ [\alpha = -6, \beta = -4, \gamma = 0, \delta = 7, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x-1 & : & x <= -2 \\ 3 & : & -2 < x <= 2 \\ 4x+3 & : & x > 2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 7, \delta = 2, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -8, \gamma = 4, \delta = 8, \varepsilon = 9]$$

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Limit02_piecewise for No.9037

$$No1 = \left[f(x) = \begin{bmatrix} -5 + x & x < 2 \\ -5x + 2 & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} x + 2 & : & x < 3 \\ 4 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 5 + x & : & x < 3 \\ 6 & : & x = 3 \\ 6 & : & 3 < x < 5 \\ 6 & : & x = 5 \\ 1 + x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 + x & : & x < 2 \\ -5x + 2 & : & x > 2 \end{bmatrix} \\ [\alpha = -5, \beta = -1, \gamma = 0, \delta = 7, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x - 1 & : & x < -1 \\ -6 & : & -1 <= x < 4 \\ 1 - x & : & x >= 4 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -8, \gamma = 6, \delta = 8, \varepsilon = 10]$$

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Limit02_piecewise for No.9138

$$No1 = \left[f(x) = \begin{bmatrix} 3x+2 & x < -3 \\ -4-x & x > -3 \end{bmatrix}, a = -3 \right]$$

| x |-3.2000|-3.1000|-3.0100|-3.0010|-3.0001|.. |a = -3|...|-2.9999|-2.9990|-2.9900|-2.9000|-2.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 6 & : & x < 2 \\ 9-x & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 3 \\ 5 & : & x = 3 \\ 5 & : & 3 < x < 6 \\ 7 & : & x = 6 \\ 1+x & : & x > 6 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+2 & : & x < -3 \\ -4-x & : & x > -3 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 2, \delta = 5, \varepsilon = -3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x+3 & : & x <= -5 \\ 5x-2 & : & -5 < x < 1 \\ 3 & : & x > 1 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 5, \delta = 1, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = 0, \gamma = 9, \delta = 10, \varepsilon = 12]$$

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Limit02_piecewise for No.9602

$$No1 = \left[f(x) = \begin{bmatrix} -3 - x & x <= 2 \\ 6x - 2 & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 10 - x & : & x < 3 \\ 7 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x + 2 & : & x < 2 \\ 4 & : & x = 2 \\ 4 & : & 2 < x < 5 \\ 2 & : & x = 5 \\ -3 + x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -3 - x & : & x <= 2 \\ 6x - 2 & : & x > 2 \end{bmatrix} \\ [\alpha = -6, \beta = -2, \gamma = 0, \delta = 5, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x - 1 & : & x < -4 \\ -20 & : & -4 <= x < 4 \\ -4x - 4 & : & x >= 4 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -10, \gamma = -8, \delta = 1, \varepsilon = 3]$$

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Limit02_piecewise for No.9616

$$No1 = \left[f(x) = \begin{bmatrix} -3x+6 & x < 3 \\ -5+x & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 3 & : & x < 4 \\ 7-x & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 3 \\ 6 & : & x = 3 \\ 6 & : & 3 < x < 6 \\ 3 & : & x = 6 \\ -3+x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x+6 & : & x < 3 \\ -5+x & : & x > 3 \end{bmatrix} \\ [\alpha = -5, \beta = -4, \gamma = 0, \delta = 2, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -7 & : & x <= -1 \\ 2x-5 & : & -1 < x <= 2 \\ -3x-2 & : & x > 2 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 6, \delta = 2, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -11, \gamma = -2, \delta = 2, \varepsilon = 10]$$

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Limit02_piecewise for No.10152

$$No1 = \left[f(x) = \begin{bmatrix} 2x-1 & x < -1 \\ -3-x & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} -2+x & : & x < 5 \\ 3 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 2 \\ 3 & : & x = 2 \\ 6 & : & 2 < x < 6 \\ 4 & : & x = 6 \\ 12-x & : & x > 6 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x-1 & : & x < -1 \\ -3-x & : & x > -1 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x+3 & : & x < -2 \\ -2 & : & -2 <= x < 2 \\ -3x+4 & : & x > 2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 5, \delta = 2, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -8, \gamma = 2, \delta = 8, \varepsilon = 9]$$

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Limit02_piecewise for No.11738

$$No1 = \left[f(x) = \begin{bmatrix} -3x+4 & x < -1 \\ 6x-5 & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 4 & : & x <= 2 \\ 5-x & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} -2+x & : & x < 4 \\ 2 & : & x = 4 \\ 4 & : & 4 < x < 6 \\ 4 & : & x = 6 \\ -2+x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x+4 & : & x < -1 \\ 6x-5 & : & x > -1 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 21 & : & x < -4 \\ -4x+5 & : & -4 <= x < 2 \\ 3x+6 & : & x > 2 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 4, \delta = 2, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -6, \beta = 1, \gamma = 3, \delta = 10, \varepsilon = 12]$$

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Limit02_piecewise for No.11754

$$No1 = \left[f(x) = \begin{bmatrix} -4x+4 & x < 3 \\ 7x+7 & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 5 & : & x <= 3 \\ 8-x & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} -1+x & : & x < 5 \\ 3 & : & x = 5 \\ 4 & : & 5 < x < 8 \\ 1 & : & x = 8 \\ x-7 & : & x > 8 \end{bmatrix}, a = 8 \right]$$

| x |7.8000|7.9000|7.9900|7.9990|7.9999|.. |a = 8|...|8.0001|8.0010|8.0100|8.1000|8.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x+4 & : & x < 3 \\ 7x+7 & : & x >= 3 \end{bmatrix} \\ [\alpha = -4, \beta = -2, \gamma = 0, \delta = 4, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x+1 & : & x <= -3 \\ 2x+1 & : & -3 < x < 2 \\ 5 & : & x >= 2 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 6, \delta = 2, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -6, \gamma = 2, \delta = 6, \varepsilon = 12]$$

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Limit02_piecewise for No.11841

$$No1 = \left[f(x) = \begin{bmatrix} 5 - x & x <= -2 \\ 2x - 3 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 11 - x & : & x <= 5 \\ 8 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 12 - x & : & x < 4 \\ 8 & : & x = 4 \\ 6 & : & 4 < x < 7 \\ 6 & : & x = 7 \\ -1 + x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5 - x & : & x <= -2 \\ 2x - 3 & : & x > -2 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x + 5 & : & x <= -3 \\ 2x + 7 & : & -3 < x < 1 \\ 9 & : & x > 1 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 6, \delta = 1, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -8, \gamma = -1, \delta = 1, \varepsilon = 12]$$

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Limit02_piecewise for No.11842

$$No1 = \left[f(x) = \begin{bmatrix} 3x+6 & x <= -2 \\ -4x+5 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 7 & : & x < 4 \\ 11-x & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 4-x & : & x < 2 \\ 4 & : & x = 2 \\ 4 & : & 2 < x < 5 \\ 2 & : & x = 5 \\ 9-x & : & x > 5 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+6 & : & x <= -2 \\ -4x+5 & : & x > -2 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 5, \delta = 7, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x-2 & : & x < -1 \\ -6 & : & -1 < x < 4 \\ -2x-6 & : & x > 4 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -5, \beta = -3, \gamma = 8, \delta = 9, \varepsilon = 10]$$

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Limit02_piecewise for No.11901

$$No1 = \left[f(x) = \begin{bmatrix} -2x+6 & x < 3 \\ 4x-1 & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 9-x & : & x < 4 \\ 5 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} -2+x & : & x < 5 \\ 3 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 6 & : & x = 7 \\ -1+x & : & x > 7 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x+6 & : & x < 3 \\ 4x-1 & : & x >= 3 \end{bmatrix} \\ [\alpha = -2, \beta = -1, \gamma = 0, \delta = 7, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -1-x & : & x <= -4 \\ 5 & : & -4 < x <= 1 \\ 3x+2 & : & x > 1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 5, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -9, \gamma = 0, \delta = 3, \varepsilon = 9]$$

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Limit02_piecewise for No.11947

$$No1 = \left[f(x) = \begin{bmatrix} -2x+2 & x < 3 \\ x & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} x+2 & : & x <= 5 \\ 8 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 8-x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 6 & : & x = 7 \\ -1+x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x+2 & : & x < 3 \\ x & : & x > 3 \end{bmatrix} \\ [\alpha = -7, \beta = -6, \gamma = 0, \delta = 4, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -1 & : & x <= -3 \\ -4-x & : & -3 < x < 1 \\ 5x-3 & : & x >= 1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 4, \delta = 1, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -3, \gamma = 2, \delta = 4, \varepsilon = 10]$$

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Limit02_piecewise for No.11989

$$No1 = \left[f(x) = \begin{bmatrix} -2x-2 & x < 1 \\ 6x+1 & x >= 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 9-x & : & x <= 2 \\ 6 & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 5 \\ 5 & : & x = 5 \\ 5 & : & 5 < x < 8 \\ 5 & : & x = 8 \\ 13-x & : & x > 8 \end{bmatrix}, a = 8 \right]$$

| x |7.8000|7.9000|7.9900|7.9990|7.9999|.. |a = 8|...|8.0001|8.0010|8.0100|8.1000|8.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x-2 & : & x < 1 \\ 6x+1 & : & x >= 1 \end{bmatrix} \\ [\alpha = -5, \beta = -4, \gamma = 0, \delta = 2, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 6+x & : & x < -3 \\ -5x-7 & : & -3 < x < 3 \\ -22 & : & x >= 3 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 7, \delta = 3, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -1, \gamma = 2, \delta = 8, \varepsilon = 9]$$

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Limit02_piecewise for No.11996

$$No1 = \left[f(x) = \begin{bmatrix} 3x-2 & x <= -1 \\ -4x+2 & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 3 \\ 5 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 6+x & : & x < 2 \\ 8 & : & x = 2 \\ 6 & : & 2 < x < 4 \\ 6 & : & x = 4 \\ x+2 & : & x > 4 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x-2 & : & x <= -1 \\ -4x+2 & : & x > -1 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 1, \delta = 3, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -11 & : & x < -5 \\ 3x+4 & : & -5 < x < 4 \\ -4x-6 & : & x >= 4 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 3, \delta = 4, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -3, \beta = -2, \gamma = 1, \delta = 2, \varepsilon = 8]$$

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Limit02_piecewise for No.12889

$$No1 = \left[f(x) = \begin{bmatrix} -6x+5 & x <= 2 \\ 5x & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 2 \\ 5 & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 3 \\ 4 & : & x = 3 \\ 4 & : & 3 < x < 5 \\ 5 & : & x = 5 \\ x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -6x+5 & : & x <= 2 \\ 5x & : & x > 2 \end{bmatrix} \\ [\alpha = -7, \beta = -2, \gamma = 0, \delta = 1, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -4+x & : & x <= -1 \\ -4x-5 & : & -1 < x <= 2 \\ -13 & : & x > 2 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 6, \delta = 2, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -4, \gamma = -3, \delta = 4, \varepsilon = 10]$$

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Limit02_piecewise for No.12890

$$No1 = \left[f(x) = \begin{bmatrix} -6x-3 & x < 2 \\ 3x-1 & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} -1+x & : & x < 5 \\ 4 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 5+x & : & x < 2 \\ 7 & : & x = 2 \\ 5 & : & 2 < x < 4 \\ 8 & : & x = 4 \\ 1+x & : & x > 4 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -6x-3 & : & x < 2 \\ 3x-1 & : & x >= 2 \end{bmatrix} \\ [\alpha = -2, \beta = -1, \gamma = 0, \delta = 5, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5x+6 & : & x < -4 \\ 26 & : & -4 <= x < 3 \\ 4x+3 & : & x > 3 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 7, \delta = 3, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -7, \beta = -3, \gamma = 2, \delta = 9, \varepsilon = 12]$$

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Limit02_piecewise for No.12891

$$No1 = \left[f(x) = \begin{bmatrix} 2x-5 & x <= 1 \\ -6x-5 & x > 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 4 \\ 1 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 8-x & : & x < 2 \\ 8 & : & x = 2 \\ 6 & : & 2 < x < 5 \\ 5 & : & x = 5 \\ 10-x & : & x > 5 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x-5 & : & x <= 1 \\ -6x-5 & : & x > 1 \end{bmatrix} \\ [\alpha = -6, \beta = -1, \gamma = 0, \delta = 5, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x-6 & : & x < -3 \\ 2x+4 & : & -3 < x <= 2 \\ 8 & : & x > 2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 3, \delta = 2, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -10, \gamma = -9, \delta = -1, \varepsilon = 6]$$

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Limit02_piecewise for No.12917

$$No1 = \left[f(x) = \begin{bmatrix} 6x-7 & x < -2 \\ -2x+1 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 4 & : & x < 4 \\ -1+x & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 3 \\ 4 & : & x = 3 \\ 4 & : & 3 < x < 6 \\ 4 & : & x = 6 \\ -4+x & : & x > 6 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 6x-7 & : & x < -2 \\ -2x+1 & : & x > -2 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x+5 & : & x < -1 \\ 5x-1 & : & -1 <= x < 5 \\ 24 & : & x > 5 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 4, \delta = 5, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -7, \beta = -3, \gamma = 1, \delta = 4, \varepsilon = 9]$$

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Limit02_piecewise for No.13099

$$No1 = \left[f(x) = \begin{bmatrix} -7x-6 & x < 2 \\ 2x+3 & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 6 & : & x <= 3 \\ 7-x & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 3 \\ 4 & : & x = 3 \\ 4 & : & 3 < x < 6 \\ 2 & : & x = 6 \\ 8-x & : & x > 6 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -7x-6 & : & x < 2 \\ 2x+3 & : & x >= 2 \end{bmatrix} \\ [\alpha = -7, \beta = -2, \gamma = 0, \delta = 4, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 7-2x & : & x < -1 \\ 9 & : & -1 < x <= 1 \\ 5x-7 & : & x > 1 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 5, \delta = 1, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -5, \gamma = 4, \delta = 10, \varepsilon = 12]$$

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Limit02_piecewise for No.13100

$$No1 = \left[f(x) = \begin{bmatrix} -2x+2 & x < 1 \\ 7x-1 & x > 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 8-x & : & x <= 5 \\ 4 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 6 & : & x = 7 \\ x+2 & : & x > 7 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x+2 & : & x < 1 \\ 7x-1 & : & x > 1 \end{bmatrix} \\ [\alpha = -4, \beta = -1, \gamma = 0, \delta = 2, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -3 & : & x <= -4 \\ -7-x & : & -4 < x <= 1 \\ 3x+4 & : & x > 1 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 6, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -8, \gamma = -6, \delta = -3, \varepsilon = 2]$$

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Limit02_piecewise for No.13411

$$No1 = \left[f(x) = \begin{bmatrix} 3-x & x <= -2 \\ 2x+2 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 1+x & : & x <= 5 \\ 7 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 9 & : & x = 7 \\ 16-x & : & x > 7 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3-x & : & x <= -2 \\ 2x+2 & : & x > -2 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x-4 & : & x < -4 \\ 3x+3 & : & -4 <= x < 1 \\ 6 & : & x > 1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 5, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -4, \gamma = 1, \delta = 2, \varepsilon = 9]$$

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Limit02_piecewise for No.646101

$$No1 = \left[f(x) = \begin{bmatrix} -3x+1 & x < 1 \\ 4x-4 & x > 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 7 & : & x < 5 \\ x+2 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 6-x & : & x < 2 \\ 4 & : & x = 2 \\ 4 & : & 2 < x < 5 \\ 4 & : & x = 5 \\ x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x+1 & : & x < 1 \\ 4x-4 & : & x > 1 \end{bmatrix} \\ [\alpha = -6, \beta = -2, \gamma = 0, \delta = 4, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x-3 & : & x < -5 \\ -3 & : & -5 <= x <= 2 \\ -2x+1 & : & x > 2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 1, \delta = 2, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -9, \gamma = -4, \delta = 8, \varepsilon = 12]$$

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Limit02_piecewise for No.646102

$$No1 = \left[f(x) = \begin{bmatrix} -2x-6 & x < 1 \\ 6x+2 & x > 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 3 \\ 4 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 2 \\ 6 & : & x = 2 \\ 4 & : & 2 < x < 5 \\ 6 & : & x = 5 \\ 11-x & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x-6 & : & x < 1 \\ 6x+2 & : & x > 1 \end{bmatrix} \\ [\alpha = -5, \beta = -3, \gamma = 0, \delta = 2, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -23 & : & x < -4 \\ 5x-3 & : & -4 < x < 4 \\ -3x+6 & : & x >= 4 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 3, \delta = 4, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -6, \gamma = -5, \delta = 4, \varepsilon = 10]$$

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Limit02_piecewise for No.646103

$$No1 = \left[f(x) = \begin{bmatrix} -5 + x & x < 3 \\ -2x + 6 & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} -1 + x & : & x <= 4 \\ 3 & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 9 - x & : & x < 5 \\ 4 & : & x = 5 \\ 5 & : & 5 < x < 7 \\ 5 & : & x = 7 \\ -2 + x & : & x > 7 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 + x & : & x < 3 \\ -2x + 6 & : & x >= 3 \end{bmatrix} \\ [\alpha = -6, \beta = -5, \gamma = 0, \delta = 7, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5x - 2 & : & x < -2 \\ 8 & : & -2 <= x < 2 \\ 2x - 2 & : & x >= 2 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 7, \delta = 2, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -6, \gamma = -3, \delta = -2, \varepsilon = 6]$$

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Limit02_piecewise for No.646104

$$No1 = \left[f(x) = \begin{bmatrix} -5x-3 & x < 1 \\ 6x-2 & x >= 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 3 \\ 3 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 8-x & : & x < 2 \\ 5 & : & x = 2 \\ 6 & : & 2 < x < 5 \\ 8 & : & x = 5 \\ 13-x & : & x > 5 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -5x-3 & : & x < 1 \\ 6x-2 & : & x >= 1 \end{bmatrix} \\ [\alpha = -6, \beta = -5, \gamma = 0, \delta = 4, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 & : & x < -1 \\ 2x-3 & : & -1 < x < 5 \\ -3x+3 & : & x >= 5 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 4, \delta = 5, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -5, \gamma = -1, \delta = 0, \varepsilon = 3]$$

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Limit02_piecewise for No.646105

$$No1 = \left[f(x) = \begin{bmatrix} 3x-6 & x < -2 \\ 2-x & x >= -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 5 & : & x <= 3 \\ x+2 & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x & : & x < 4 \\ 7 & : & x = 4 \\ 4 & : & 4 < x < 6 \\ 4 & : & x = 6 \\ -3+x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x-6 & : & x < -2 \\ 2-x & : & x >= -2 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 3, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} x+2 & : & x < -3 \\ -1 & : & -3 < x < 4 \\ -2x+4 & : & x >= 4 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -2, \gamma = 0, \delta = 6, \varepsilon = 9]$$

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Limit02_piecewise for No.646106

$$No1 = \left[f(x) = \begin{bmatrix} -6x-3 & x < -1 \\ 3x-4 & x >= -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 4 \\ 7 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 11-x & : & x < 2 \\ 9 & : & x = 2 \\ 6 & : & 2 < x < 4 \\ 6 & : & x = 4 \\ 10-x & : & x > 4 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -6x-3 & : & x < -1 \\ 3x-4 & : & x >= -1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 1, \delta = 2, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x-1 & : & x < -4 \\ 2x-4 & : & -4 <= x < 1 \\ -2 & : & x > 1 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 2, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -5, \beta = -2, \gamma = 0, \delta = 3, \varepsilon = 9]$$

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Limit02_piecewise for No.646107

$$No1 = \left[f(x) = \begin{bmatrix} -3x+4 & x < -3 \\ 2x-2 & x > -3 \end{bmatrix}, a = -3 \right]$$

| x |-3.2000|-3.1000|-3.0100|-3.0010|-3.0001|.. |a = -3|...|-2.9999|-2.9990|-2.9900|-2.9000|-2.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 8-x & : & x <= 3 \\ 5 & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 4 & : & x = 7 \\ 11-x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x+4 & : & x < -3 \\ 2x-2 & : & x > -3 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 3, \delta = 7, \varepsilon = -3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -14 & : & x <= -2 \\ 5x-4 & : & -2 < x < 1 \\ 7-x & : & x >= 1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 4, \delta = 1, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -6, \gamma = -1, \delta = 0, \varepsilon = 8]$$

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Limit02_piecewise for No.646108

$$No1 = \left[f(x) = \begin{bmatrix} 5x-5 & x < -1 \\ -6x+2 & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 7 & : & x < 5 \\ x+2 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 2 \\ 7 & : & x = 2 \\ 5 & : & 2 < x < 6 \\ 7 & : & x = 6 \\ 13-x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x-5 & : & x < -1 \\ -6x+2 & : & x > -1 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 2, \delta = 7, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 & : & x <= -2 \\ -3+x & : & -2 < x < 4 \\ -4x-4 & : & x > 4 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -4, \beta = -2, \gamma = 2, \delta = 4, \varepsilon = 6]$$

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Limit02_piecewise for No.646109

$$No1 = \left[f(x) = \begin{bmatrix} -4x+4 & x < 2 \\ 2x-6 & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 4 & : & x <= 3 \\ 1+x & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 3 \\ 5 & : & x = 3 \\ 5 & : & 3 < x < 7 \\ 7 & : & x = 7 \\ x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x+4 & : & x < 2 \\ 2x-6 & : & x > 2 \end{bmatrix} \\ [\alpha = -5, \beta = -3, \gamma = 0, \delta = 7, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x+5 & : & x < -4 \\ -4x+3 & : & -4 <= x < 4 \\ -13 & : & x >= 4 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 1, \delta = 4, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -11, \gamma = 0, \delta = 1, \varepsilon = 6]$$

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Limit02_piecewise for No.646110

$$No1 = \left[f(x) = \begin{bmatrix} 5x+3 & x < 2 \\ -7x-6 & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 3+x & : & x <= 4 \\ 6 & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 4-x & : & x < 3 \\ 1 & : & x = 3 \\ 4 & : & 3 < x < 7 \\ 6 & : & x = 7 \\ 11-x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x+3 & : & x < 2 \\ -7x-6 & : & x >= 2 \end{bmatrix} \\ [\alpha = -4, \beta = -2, \gamma = 0, \delta = 4, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 12 & : & x < -2 \\ -5x+2 & : & -2 <= x < 3 \\ x+4 & : & x >= 3 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 2, \delta = 3, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -6, \gamma = -5, \delta = 1, \varepsilon = 2]$$

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Limit02_piecewise for No.646111

$$No1 = \left[f(x) = \begin{bmatrix} 4x-7 & x < -1 \\ -3x-1 & x >= -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} -2+x & : & x < 5 \\ 3 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 5-x & : & x < 4 \\ 1 & : & x = 4 \\ 4 & : & 4 < x < 6 \\ 6 & : & x = 6 \\ -2+x & : & x > 6 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x-7 & : & x < -1 \\ -3x-1 & : & x >= -1 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 4, \delta = 6, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x-2 & : & x < -4 \\ -5 & : & -4 <= x < 2 \\ -2x-1 & : & x >= 2 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 4, \delta = 2, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -10, \gamma = -6, \delta = 10, \varepsilon = 12]$$

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Limit02_piecewise for No.646112

$$No1 = \left[f(x) = \begin{bmatrix} 5x-7 & x <= -1 \\ -6-x & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 11-x & : & x < 4 \\ 6 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 3 \\ 3 & : & x = 3 \\ 5 & : & 3 < x < 6 \\ 5 & : & x = 6 \\ -3+x & : & x > 6 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x-7 & : & x <= -1 \\ -6-x & : & x > -1 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 1, \delta = 5, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x+1 & : & x < -2 \\ -9 & : & -2 < x < 4 \\ -3x-6 & : & x >= 4 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 3, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -3, \gamma = -1, \delta = 9, \varepsilon = 10]$$

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Limit02_piecewise for No.646113

$$No1 = \left[f(x) = \begin{bmatrix} 7x-3 & x < -1 \\ 6-x & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 2 \\ 5 & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+4 & : & x < 2 \\ 6 & : & x = 2 \\ 4 & : & 2 < x < 5 \\ 4 & : & x = 5 \\ 9-x & : & x > 5 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 7x-3 & : & x < -1 \\ 6-x & : & x > -1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 1, \delta = 3, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x+5 & : & x <= -5 \\ -1 & : & -5 < x < 1 \\ -4x+3 & : & x >= 1 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 7, \delta = 1, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -7, \gamma = -2, \delta = 6, \varepsilon = 8]$$

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Limit02_piecewise for No.646114

$$No1 = \left[f(x) = \begin{bmatrix} 4x+4 & x < 1 \\ -3x-7 & x >= 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 5-x & : & x <= 2 \\ 5 & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} -1+x & : & x < 3 \\ 2 & : & x = 3 \\ 5 & : & 3 < x < 7 \\ 2 & : & x = 7 \\ -2+x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x+4 & : & x < 1 \\ -3x-7 & : & x >= 1 \end{bmatrix} \\ [\alpha = -4, \beta = -1, \gamma = 0, \delta = 4, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x+7 & : & x < -1 \\ -2x-1 & : & -1 < x < 4 \\ -9 & : & x >= 4 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 6, \delta = 4, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -12, \beta = -8, \gamma = 2, \delta = 4, \varepsilon = 8]$$

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Limit02_piecewise for No.646115

$$No1 = \left[f(x) = \begin{bmatrix} 7x - 7 & x <= -2 \\ -5x & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 11 - x & : & x < 5 \\ 6 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 9 - x & : & x < 4 \\ 5 & : & x = 4 \\ 5 & : & 4 < x < 7 \\ 4 & : & x = 7 \\ -3 + x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 7x - 7 & : & x <= -2 \\ -5x & : & x > -2 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 3, \delta = 6, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x - 6 & : & x < -2 \\ 5x + 1 & : & -2 < x < 3 \\ 16 & : & x > 3 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 5, \delta = 3, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -8, \gamma = -4, \delta = 1, \varepsilon = 10]$$

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Limit02_piecewise for No.646116

$$No1 = \left[f(x) = \begin{bmatrix} 3x+3 & x < -2 \\ -7-x & x >= -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} -2+x & : & x <= 5 \\ 3 & : & x > 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 2 \\ 5 & : & x = 2 \\ 5 & : & 2 < x < 4 \\ 5 & : & x = 4 \\ 12-x & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+3 & : & x < -2 \\ -7-x & : & x >= -2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 5, \delta = 7, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 14 & : & x < -4 \\ -2x+6 & : & -4 < x < 1 \\ 3x+2 & : & x > 1 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 7, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -10, \gamma = -5, \delta = -1, \varepsilon = 10]$$

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Limit02_piecewise for No.646117

$$No1 = \left[f(x) = \begin{bmatrix} 4x+3 & x < 2 \\ -6x+5 & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 4 & : & x < 3 \\ 1+x & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 9-x & : & x < 4 \\ 5 & : & x = 4 \\ 5 & : & 4 < x < 7 \\ 5 & : & x = 7 \\ -3+x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x+3 & : & x < 2 \\ -6x+5 & : & x >= 2 \end{bmatrix} \\ [\alpha = -7, \beta = -6, \gamma = 0, \delta = 6, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 & : & x <= -4 \\ -1+x & : & -4 < x < 1 \\ -4x-1 & : & x >= 1 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 4, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -6, \gamma = 2, \delta = 4, \varepsilon = 9]$$

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Limit02_piecewise for No.646118

$$No1 = \left[f(x) = \begin{bmatrix} 7 - x & x < 1 \\ 6x + 2 & x > 1 \end{bmatrix}, a = 1 \right]$$

x	0.8000	0.9000	0.9900	0.9990	0.9999	..	a = 1	...	1.0001	1.0010	1.0100	1.1000	1.2000

$$No2 = \left[f(x) = \begin{bmatrix} 8 & : & x < 3 \\ x + 4 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

x	2.8000	2.9000	2.9900	2.9990	2.9999	..	a = 3	...	3.0001	3.0010	3.0100	3.1000	3.2000

$$No3 = \left[f(x) = \begin{bmatrix} x + 4 & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 7 \\ 6 & : & x = 7 \\ 13 - x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

x	6.8000	6.9000	6.9900	6.9990	6.9999	..	a = 7	...	7.0001	7.0010	7.0100	7.1000	7.2000

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 7 - x & : & x < 1 \\ 6x + 2 & : & x > 1 \end{bmatrix} \\ [\alpha = -5, \beta = -2, \gamma = 0, \delta = 5, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 18 & : & x <= -4 \\ -4x + 2 & : & -4 < x < 5 \\ 3 + x & : & x > 5 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -4, \gamma = 3, \delta = 8, \varepsilon = 12]$$

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Limit02_piecewise for No.646119

$$No1 = \left[f(x) = \begin{bmatrix} 3x+7 & x < 1 \\ -4x-1 & x >= 1 \end{bmatrix}, a = 1 \right]$$

| x |0.8000|0.9000|0.9900|0.9990|0.9999|.. |a = 1|...|1.0001|1.0010|1.0100|1.1000|1.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x <= 3 \\ 4 & : & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 3+x & : & x < 2 \\ 7 & : & x = 2 \\ 5 & : & 2 < x < 4 \\ 5 & : & x = 4 \\ -1+x & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+7 & : & x < 1 \\ -4x-1 & : & x >= 1 \end{bmatrix} \\ [\alpha = -5, \beta = -3, \gamma = 0, \delta = 6, \varepsilon = 1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+3 & : & x <= -5 \\ -2x-5 & : & -5 < x < 1 \\ -7 & : & x > 1 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 6, \delta = 1, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -9, \beta = -8, \gamma = -5, \delta = -3, \varepsilon = 10]$$

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Limit02_piecewise for No.646120

$$No1 = \left[f(x) = \begin{bmatrix} 6x+6 & x < 2 \\ -3x-3 & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 7 & : & x < 2 \\ 9-x & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x & : & x < 4 \\ 3 & : & x = 4 \\ 4 & : & 4 < x < 6 \\ 7 & : & x = 6 \\ 1+x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 6x+6 & : & x < 2 \\ -3x-3 & : & x >= 2 \end{bmatrix} \\ [\alpha = -7, \beta = -4, \gamma = 0, \delta = 5, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x+7 & : & x < -3 \\ 19 & : & -3 <= x < 5 \\ 5x+1 & : & x > 5 \end{bmatrix} \\ [\alpha = -7, \beta = 0, \gamma = 6, \delta = 5, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -1, \gamma = 3, \delta = 4, \varepsilon = 12]$$

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Limit02_piecewise for No.646121

$$No1 = \left[f(x) = \begin{bmatrix} -7x-2 & x <= -1 \\ 4x-2 & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 1 & : & x <= 2 \\ 1+x & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x & : & x < 5 \\ 5 & : & x = 5 \\ 5 & : & 5 < x < 7 \\ 5 & : & x = 7 \\ -3+x & : & x > 7 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -7x-2 & : & x <= -1 \\ 4x-2 & : & x > -1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 1 & : & x <= -1 \\ -2x-1 & : & -1 < x < 2 \\ 4x-6 & : & x >= 2 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 1, \delta = 2, \varepsilon = -1] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -9, \gamma = -3, \delta = 2, \varepsilon = 3]$$

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Limit02_piecewise for No.646122

$$No1 = \left[f(x) = \begin{bmatrix} -7x - 4 & x < 2 \\ 3x - 7 & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 5 & : & x < 5 \\ 8 - x & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 5 + x & : & x < 2 \\ 7 & : & x = 2 \\ 5 & : & 2 < x < 6 \\ 5 & : & x = 6 \\ 11 - x & : & x > 6 \end{bmatrix}, a = 6 \right]$$

| x |5.8000|5.9000|5.9900|5.9990|5.9999|.. |a = 6|...|6.0001|6.0010|6.0100|6.1000|6.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -7x - 4 & : & x < 2 \\ 3x - 7 & : & x > 2 \end{bmatrix} \\ [\alpha = -7, \beta = -1, \gamma = 0, \delta = 4, \varepsilon = 2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -3x - 4 & : & x <= -2 \\ 22 & : & -2 < x <= 4 \\ 4x + 6 & : & x > 4 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 1, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -3, \gamma = -2, \delta = -1, \varepsilon = 12]$$

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Limit02_piecewise for No.646123

$$No1 = \left[f(x) = \begin{bmatrix} 5x-2 & x < 3 \\ -2-x & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 5 \\ 8 & : & x >= 5 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 2 \\ 4 & : & x = 2 \\ 4 & : & 2 < x < 6 \\ 3 & : & x = 6 \\ -3+x & : & x > 6 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x-2 & : & x < 3 \\ -2-x & : & x >= 3 \end{bmatrix} \\ [\alpha = -6, \beta = -5, \gamma = 0, \delta = 7, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -18 & : & x <= -3 \\ 5x-3 & : & -3 < x < 4 \\ -2x-7 & : & x >= 4 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 2, \delta = 4, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -1, \gamma = 3, \delta = 4, \varepsilon = 9]$$

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Limit02_piecewise for No.646124

$$No1 = \left[f(x) = \begin{bmatrix} -4x+5 & x <= 3 \\ 2x+2 & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 3 \\ 4 & : & x >= 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 6+x & : & x < 2 \\ 6 & : & x = 2 \\ 6 & : & 2 < x < 6 \\ 6 & : & x = 6 \\ 12-x & : & x > 6 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x+5 & : & x <= 3 \\ 2x+2 & : & x > 3 \end{bmatrix} \\ [\alpha = -5, \beta = -3, \gamma = 0, \delta = 5, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 2x-6 & : & x < -4 \\ 5-x & : & -4 < x <= 1 \\ 4 & : & x > 1 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 7, \delta = 1, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -6, \gamma = 0, \delta = 1, \varepsilon = 4]$$

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Limit02_piecewise for No.646125

$$No1 = \left[f(x) = \begin{bmatrix} 6x-6 & x < -2 \\ -7x+5 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 1 & : & x <= 2 \\ 1+x & : & x > 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} -2+x & : & x < 5 \\ 3 & : & x = 5 \\ 4 & : & 5 < x < 7 \\ 4 & : & x = 7 \\ 11-x & : & x > 7 \end{bmatrix}, a = 7 \right]$$

| x |6.8000|6.9000|6.9900|6.9990|6.9999|.. |a = 7|...|7.0001|7.0010|7.0100|7.1000|7.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 6x-6 & : & x < -2 \\ -7x+5 & : & x > -2 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 2, \delta = 7, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2+x & : & x < -2 \\ -4x-5 & : & -2 <= x < 3 \\ -17 & : & x >= 3 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 2, \delta = 3, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -10, \beta = -8, \gamma = -5, \delta = 6, \varepsilon = 12]$$

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Limit02_piecewise for No.646126

$$No1 = \left[f(x) = \begin{bmatrix} -4x+6 & x < -1 \\ 3x+2 & x > -1 \end{bmatrix}, a = -1 \right]$$

| x |-1.2000|-1.1000|-1.0100|-1.0010|-1.0001|.. |a = -1|...|-0.9999|-0.9990|-0.9900|-0.9000|-0.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 9-x & : & x < 4 \\ 3 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+2 & : & x < 2 \\ 4 & : & x = 2 \\ 4 & : & 2 < x < 4 \\ 4 & : & x = 4 \\ 5-x & : & x > 4 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x+6 & : & x < -1 \\ 3x+2 & : & x > -1 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 6, \delta = 7, \varepsilon = -1] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5 & : & x <= -2 \\ 5x+5 & : & -2 < x <= 4 \\ -2x+6 & : & x > 4 \end{bmatrix} \\ [\alpha = -3, \beta = 0, \gamma = 5, \delta = 4, \varepsilon = -2] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -8, \gamma = 0, \delta = 3, \varepsilon = 6]$$

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Limit02_piecewise for No.646127

$$No1 = \left[f(x) = \begin{bmatrix} 6x-3 & x < -2 \\ -4x+2 & x > -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 2 \\ 5 & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 5+x & : & x < 2 \\ 5 & : & x = 2 \\ 5 & : & 2 < x < 6 \\ 5 & : & x = 6 \\ -1+x & : & x > 6 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 6x-3 & : & x < -2 \\ -4x+2 & : & x > -2 \end{bmatrix} \\ [\alpha = -4, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -5x-2 & : & x < -4 \\ x-7 & : & -4 < x <= 2 \\ -5 & : & x > 2 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 5, \delta = 2, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -7, \beta = -1, \gamma = 2, \delta = 8, \varepsilon = 9]$$

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Limit02_piecewise for No.646128

$$No1 = \left[f(x) = \begin{bmatrix} -7x+5 & x <= 3 \\ 2x-5 & x > 3 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No2 = \left[f(x) = \begin{bmatrix} 3+x & : & x <= 4 \\ 8 & : & x > 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 8 \\ 6 & : & x = 8 \\ 14-x & : & x > 8 \end{bmatrix}, a = 8 \right]$$

| x |7.8000|7.9000|7.9900|7.9990|7.9999|.. |a = 8|...|8.0001|8.0010|8.0100|8.1000|8.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -7x+5 & : & x <= 3 \\ 2x-5 & : & x > 3 \end{bmatrix} \\ [\alpha = -6, \beta = -3, \gamma = 0, \delta = 2, \varepsilon = 3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} -2x-6 & : & x <= -4 \\ 4x+7 & : & -4 < x < 2 \\ 15 & : & x > 2 \end{bmatrix} \\ [\alpha = -5, \beta = 0, \gamma = 1, \delta = 2, \varepsilon = -4] \end{bmatrix}$$

$$No6 = [\alpha = -8, \beta = -5, \gamma = -3, \delta = 10, \varepsilon = 12]$$

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Limit02_piecewise for No.646129

$$No1 = \left[f(x) = \begin{bmatrix} 5x & x < -3 \\ -2-x & x > -3 \end{bmatrix}, a = -3 \right]$$

| x |-3.2000|-3.1000|-3.0100|-3.0010|-3.0001|.. |a = -3|...|-2.9999|-2.9990|-2.9900|-2.9000|-2.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 7-x & : & x < 4 \\ 4 & : & x >= 4 \end{bmatrix}, a = 4 \right]$$

| x |3.8000|3.9000|3.9900|3.9990|3.9999|.. |a = 4|...|4.0001|4.0010|4.0100|4.1000|4.2000|

$$No3 = \left[f(x) = \begin{bmatrix} 1+x & : & x < 5 \\ 6 & : & x = 5 \\ 6 & : & 5 < x < 8 \\ 6 & : & x = 8 \\ 15-x & : & x > 8 \end{bmatrix}, a = 5 \right]$$

| x |4.8000|4.9000|4.9900|4.9990|4.9999|.. |a = 5|...|5.0001|5.0010|5.0100|5.1000|5.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} 5x & : & x < -3 \\ -2-x & : & x > -3 \end{bmatrix} \\ [\alpha = -6, \beta = 0, \gamma = 4, \delta = 5, \varepsilon = -3] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 4x-5 & : & x <= -5 \\ -6 & : & -5 < x < 2 \\ -5x+4 & : & x > 2 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 6, \delta = 2, \varepsilon = -5] \end{bmatrix}$$

$$No6 = [\alpha = -6, \beta = -2, \gamma = 0, \delta = 6, \varepsilon = 10]$$

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Limit02_piecewise for No.646130

$$No1 = \left[f(x) = \begin{bmatrix} -4x & x < -2 \\ 3x-3 & x >= -2 \end{bmatrix}, a = -2 \right]$$

| x |-2.2000|-2.1000|-2.0100|-2.0010|-2.0001|.. |a = -2|...|-1.9999|-1.9990|-1.9900|-1.9000|-1.8000|

$$No2 = \left[f(x) = \begin{bmatrix} 5 & : & x < 2 \\ 3+x & : & x >= 2 \end{bmatrix}, a = 2 \right]$$

| x |1.8000|1.9000|1.9900|1.9990|1.9999|.. |a = 2|...|2.0001|2.0010|2.0100|2.1000|2.2000|

$$No3 = \left[f(x) = \begin{bmatrix} x+4 & : & x < 3 \\ 7 & : & x = 3 \\ 5 & : & 3 < x < 5 \\ 4 & : & x = 5 \\ x & : & x > 5 \end{bmatrix}, a = 3 \right]$$

| x |2.8000|2.9000|2.9900|2.9990|2.9999|.. |a = 3|...|3.0001|3.0010|3.0100|3.1000|3.2000|

$$No4 = \begin{bmatrix} f(x) = \begin{bmatrix} -4x & : & x < -2 \\ 3x-3 & : & x >= -2 \end{bmatrix} \\ [\alpha = -1, \beta = 0, \gamma = 6, \delta = 7, \varepsilon = -2] \end{bmatrix}$$

$$No5 = \begin{bmatrix} f(x) = \begin{bmatrix} 3x+5 & : & x < -3 \\ -22 & : & -3 <= x <= 5 \\ -4x-2 & : & x > 5 \end{bmatrix} \\ [\alpha = -2, \beta = 0, \gamma = 1, \delta = 5, \varepsilon = -3] \end{bmatrix}$$

$$No6 = [\alpha = -11, \beta = -7, \gamma = 0, \delta = 8, \varepsilon = 12]$$

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