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 X Math@MUT XXXM6/1-6500503-00003XX  
 Limit02\_piecewise for No.9252

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

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

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

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

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

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

$$No4 = \left[ \begin{array}{l} f(x) = \begin{cases} 3x+1 & : x < 2 \\ -5x-1 & : x \geq 2 \end{cases} \\ [\alpha = -3, \beta = -2, \gamma = 0, \delta = 6, \epsilon = 2] \end{array} \right]$$

$$No5 = \left[ \begin{array}{l} f(x) = \begin{cases} 8 & : x < -5 \\ 3-x & : -5 \leq x \leq 2 \\ 2x+7 & : x > 2 \end{cases} \\ [\alpha = -1, \beta = 0, \gamma = 3, \delta = 2, \epsilon = -5] \end{array} \right]$$

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

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 Limit02\_piecewise for No.9789

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

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

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

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

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

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

$$No4 = \left[ \begin{array}{l} f(x) = \begin{cases} 6x - 1 & : x < 1 \\ -2x + 2 & : x > 1 \end{cases} \\ [\alpha = -6, \beta = -1, \gamma = 0, \delta = 2, \epsilon = 1] \end{array} \right]$$

$$No5 = \left[ \begin{array}{l} f(x) = \begin{cases} -3x - 6 & : x < -5 \\ 2x - 2 & : -5 \leq x \leq 2 \\ 2 & : x > 2 \end{cases} \\ [\alpha = -3, \beta = 0, \gamma = 3, \delta = 2, \epsilon = -5] \end{array} \right]$$

$$No6 = [\alpha = -11, \beta = -5, \gamma = -3, \delta = 6, \epsilon = 12]$$

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X Math@MUT XXXM6/1-6500503-00012XX  
Limit02\_piecewise for No.9843

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

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

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

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

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

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

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

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

$$No6 = [\alpha = -7, \beta = -5, \gamma = -2, \delta = 1, \varepsilon = 3]$$

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 Limit02\_piecewise for No.10688

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} 10 - x & : x < 4 \\ 6 & : x = 4 \\ 4 & : 4 < x < 7 \\ 4 & : x = 7 \\ 11 - x & : x > 7 \end{cases}, a = 4 \right]$$

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

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

$$No5 = \left[ \begin{matrix} f(x) = \begin{cases} -4x - 5 & : x \leq -3 \\ 7 & : -3 < x < 4 \\ 2x - 1 & : x \geq 4 \end{cases} \\ [\alpha = -4, \beta = 0, \gamma = 7, \delta = 4, \varepsilon = -3] \end{matrix} \right]$$

$$No6 = [\alpha = -9, \beta = -3, \gamma = 6, \delta = 9, \varepsilon = 12]$$

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} 8 - x & : x < 2 \\ 6 & : x = 2 \\ 6 & : 2 < x < 4 \\ 3 & : x = 4 \\ x - 1 & : x > 4 \end{cases}, a = 4 \right]$$

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

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

$$No5 = \left[ \begin{aligned} & f(x) = \begin{cases} -3x + 1 & : x \leq -1 \\ 4 & : -1 < x < 3 \\ 2x - 7 & : x \geq 3 \end{cases} \\ & [\alpha = -2, \beta = 0, \gamma = 4, \delta = 3, \varepsilon = -1] \end{aligned} \right]$$

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

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} x - 1 & : x < 4 \\ 4 & : x = 4 \\ 4 & : 4 < x < 6 \\ 7 & : x = 6 \\ 10 - x & : x > 6 \end{cases}, a = 4 \right]$$

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

$$No4 = \left[ \begin{matrix} f(x) = \begin{cases} -2x - 4 & : x \leq 1 \\ 7x - 7 & : x > 1 \end{cases} \\ [\alpha = -7, \beta = -5, \gamma = 0, \delta = 3, \epsilon = 1] \end{matrix} \right]$$

$$No5 = \left[ \begin{matrix} f(x) = \begin{cases} -5x + 4 & : x < -5 \\ 3 & : -5 \leq x < 5 \\ -2 + x & : x \geq 5 \end{cases} \\ [\alpha = -2, \beta = 0, \gamma = 1, \delta = 5, \epsilon = -5] \end{matrix} \right]$$

$$No6 = [\alpha = -12, \beta = 1, \gamma = 3, \delta = 6, \epsilon = 9]$$







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Limit02\_piecewise for No.12173

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

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

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

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

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

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

$$No4 = \left[ f(x) = \begin{cases} -3x + 5 & : x \leq 2 \\ 6x - 5 & : x > 2 \end{cases} \right]$$

[α = -7, β = -4, γ = 0, δ = 1, ε = 2]

$$No5 = \left[ f(x) = \begin{cases} 17 & : x \leq -5 \\ -3x + 2 & : -5 < x < 3 \\ 5x + 4 & : x > 3 \end{cases} \right]$$

[α = -6, β = 0, γ = 4, δ = 3, ε = -5]

$$No6 = [\alpha = -7, \beta = -4, \gamma = 0, \delta = 2, \epsilon = 3]$$









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Limit02\_piecewise for No.12482

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

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

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

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

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

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

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

$$No5 = \left[ \begin{matrix} f(x) = \begin{cases} 5x+3 & : x < -3 \\ -3x+5 & : -3 \leq x < 4 \\ -7 & : x \geq 4 \end{cases} \\ [\alpha = -5, \beta = 0, \gamma = 1, \delta = 4, \varepsilon = -3] \end{matrix} \right]$$

$$No6 = [\alpha = -12, \beta = -10, \gamma = -5, \delta = 2, \varepsilon = 3]$$

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X Math@MUT XXXM6/1-6500503-00031XX

Limit02\_piecewise for No.13490

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} x+1 & : x < 5 \\ 6 & : x = 5 \\ 6 & : 5 < x < 8 \\ 6 & : x = 8 \\ 13-x & : x > 8 \end{cases}, a = 8 \right]$$

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

$$No4 = \left[ f(x) = \begin{cases} -6+x & : x \leq -2 \\ -2x-1 & : x > -2 \end{cases} \right]$$

$$[\alpha = -1, \beta = 0, \gamma = 4, \delta = 5, \varepsilon = -2]$$

$$No5 = \left[ f(x) = \begin{cases} 10 & : x < -1 \\ -4x+6 & : -1 \leq x < 3 \\ -6+x & : x > 3 \end{cases} \right]$$

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

$$No6 = [\alpha = -12, \beta = -8, \gamma = -7, \delta = 3, \varepsilon = 9]$$

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} 4 + x & : x < 2 \\ 8 & : x = 2 \\ 6 & : 2 < x < 5 \\ 6 & : x = 5 \\ x + 3 & : x > 5 \end{cases}, a = 5 \right]$$

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

$$No4 = \left[ \begin{array}{l} f(x) = \begin{cases} 2x - 3 & : x \leq 1 \\ -3x & : x > 1 \end{cases} \\ [\alpha = -6, \beta = -2, \gamma = 0, \delta = 3, \varepsilon = 1] \end{array} \right]$$

$$No5 = \left[ \begin{array}{l} f(x) = \begin{cases} 0 & : x \leq -1 \\ 3x + 3 & : -1 < x < 4 \\ -4x + 3 & : x > 4 \end{cases} \\ [\alpha = -3, \beta = 0, \gamma = 3, \delta = 4, \varepsilon = -1] \end{array} \right]$$

$$No6 = [\alpha = -8, \beta = -4, \gamma = -2, \delta = -1, \varepsilon = 10]$$

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

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

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

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

$$No3 = \left[ f(x) = \begin{cases} 9 - x & : x < 3 \\ 6 & : x = 3 \\ 6 & : 3 < x < 5 \\ 9 & : x = 5 \\ 14 - x & : x > 5 \end{cases}, a = 3 \right]$$

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

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

$$No5 = \left[ \begin{array}{l} f(x) = \begin{cases} 12 & : x \leq -3 \\ -2x + 6 & : -3 < x \leq 5 \\ -7 + x & : x > 5 \end{cases} \\ [\alpha = -6, \beta = 0, \gamma = 3, \delta = 5, \varepsilon = -3] \end{array} \right]$$

$$No6 = [\alpha = -10, \beta = -8, \gamma = 2, \delta = 6, \varepsilon = 8]$$

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