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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -1,\ \lim_{x \to 0+} f(x) = 1,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = -2,\ \lim_{x \to 0+} g(x) = -2,\ \lim_{x \to 0} g(x) = -2] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = -1 & \lim_{x \to 0+} f(x) - g(x) = 3 & \lim_{x \to 0-} f(x)\, g(x) = 2 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{1}{2} & \lim_{x \to 0} \frac{f(x)}{g(x)} = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 2-} f(x) = 2) & .2 = (\lim_{x \to 2+} f(x) = 3) & .3 = (\lim_{x \to 2} f(x) = undefined) \\ .4 = (\lim_{x \to (-3.8)-} f(x) = -3.) & .5 = (\lim_{x \to (-3.8)+} f(x) = -3.) & .6 = (\lim_{x \to (-3.8)} f(x) = -3.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -4,\ \lim_{x \to 0+} f(x) = 4,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = 5,\ \lim_{x \to 0+} g(x) = 5,\ \lim_{x \to 0} g(x) = 5] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 9 & \lim_{x \to 0-} f(x) - g(x) = -9 & \lim_{x \to 0-} f(x)\, g(x) = -20 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = \frac{4}{5} & \lim_{x \to 0} \frac{f(x)}{g(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 3-} f(x) = 3) & .2 = (\lim_{x \to 3+} f(x) = 4) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-3.3)-} f(x) = -3.) & .5 = (\lim_{x \to (-3.3)+} f(x) = -3.) & .6 = (\lim_{x \to (-3.3)} f(x) = -3.) \end{bmatrix}$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -4,\ \lim_{x \to 0+} f(x) = 4,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = -2,\ \lim_{x \to 0+} g(x) = -2,\ \lim_{x \to 0} g(x) = -2] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 2 & \lim_{x \to 0-} f(x) - g(x) = -2 & \lim_{x \to 0+} f(x)\, g(x) = -8 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = 2 & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 3-} f(x) = 2) & .2 = (\lim_{x \to 3+} f(x) = 3) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.4)-} f(x) = -5.) & .5 = (\lim_{x \to (-4.4)+} f(x) = -5.) & .6 = (\lim_{x \to (-4.4)} f(x) = -5.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -2,\ \lim_{x \to 0+} f(x) = -2,\ \lim_{x \to 0} f(x) = -2] \\ .2 = [\lim_{x \to 0-} g(x) = -2,\ \lim_{x \to 0+} g(x) = 2,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0-} f(x) + g(x) = -4 & \lim_{x \to 0+} f(x) - g(x) = -4 & \lim_{x \to 0-} f(x)\, g(x) = 4 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = -1 & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 5-} f(x) = 5) & .2 = (\lim_{x \to 5+} f(x) = 6) & .3 = (\lim_{x \to 5} f(x) = undefined) \\ .4 = (\lim_{x \to (-2.9)-} f(x) = -2.) & .5 = (\lim_{x \to (-2.9)+} f(x) = -2.) & .6 = (\lim_{x \to (-2.9)} f(x) = -2.) \end{array} \right]$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = 2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = 2] \\ .2 = [\lim_{x \to 0-} g(x) = -3,\ \lim_{x \to 0+} g(x) = 3,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = 5 & \lim_{x \to 0-} f(x) - g(x) = 5 & \lim_{x \to 0+} f(x)\, g(x) = 6 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{-2}{3} & \lim_{x \to 0} f(x)\, g(x) = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 2-} f(x) = 2) & .2 = (\lim_{x \to 2+} f(x) = 3) & .3 = (\lim_{x \to 2} f(x) = undefined) \\ .4 = (\lim_{x \to (-2.8)-} f(x) = -2.) & .5 = (\lim_{x \to (-2.8)+} f(x) = -2.) & .6 = (\lim_{x \to (-2.8)} f(x) = -2.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -3,\ \lim_{x \to 0+} f(x) = -3,\ \lim_{x \to 0} f(x) = -3] \\ .2 = [\lim_{x \to 0-} g(x) = -3,\ \lim_{x \to 0+} g(x) = 3,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 0 & \lim_{x \to 0-} f(x) - g(x) = 0 & \lim_{x \to 0-} f(x)\, g(x) = 9 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = -1 & \lim_{x \to 0} \frac{f(x)}{g(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 3-} f(x) = 2) & .2 = (\lim_{x \to 3+} f(x) = 3) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.3)-} f(x) = -5.) & .5 = (\lim_{x \to (-4.3)+} f(x) = -5.) & .6 = (\lim_{x \to (-4.3)} f(x) = -5.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -1,\ \lim_{x \to 0+} f(x) = -1,\ \lim_{x \to 0} f(x) = -1] \\ .2 = [\lim_{x \to 0-} g(x) = -4,\ \lim_{x \to 0+} g(x) = 4,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = 3 & \lim_{x \to 0+} f(x) - g(x) = -5 & \lim_{x \to 0-} f(x)\, g(x) = 4 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{1}{4} & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 3-} f(x) = 2) & .2 = (\lim_{x \to 3+} f(x) = 3) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-1.7)-} f(x) = -2.) & .5 = (\lim_{x \to (-1.7)+} f(x) = -2.) & .6 = (\lim_{x \to (-1.7)} f(x) = -2.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -4,\ \lim_{x \to 0+} f(x) = 4,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = 2,\ \lim_{x \to 0+} g(x) = 2,\ \lim_{x \to 0} g(x) = 2] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 6 & \lim_{x \to 0-} f(x) - g(x) = -6 & \lim_{x \to 0-} f(x)\, g(x) = -8 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = 2 & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 1-} f(x) = 1) & .2 = (\lim_{x \to 1+} f(x) = 2) & .3 = (\lim_{x \to 1} f(x) = undefined) \\ .4 = (\lim_{x \to (-1.2)-} f(x) = -1.) & .5 = (\lim_{x \to (-1.2)+} f(x) = -1.) & .6 = (\lim_{x \to (-1.2)} f(x) = -1.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = 2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = 2] \\ .2 = [\lim_{x \to 0-} g(x) = -1,\ \lim_{x \to 0+} g(x) = 1,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = 3 & \lim_{x \to 0+} f(x) - g(x) = 1 & \lim_{x \to 0-} f(x)\, g(x) = -2 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = -2 & \lim_{x \to 0} f(x) - g(x) = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 5-} f(x) = 5) & .2 = (\lim_{x \to 5+} f(x) = 6) & .3 = (\lim_{x \to 5} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.9)-} f(x) = -4.) & .5 = (\lim_{x \to (-4.9)+} f(x) = -4.) & .6 = (\lim_{x \to (-4.9)} f(x) = -4.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = 1,\ \lim_{x \to 0+} f(x) = 1,\ \lim_{x \to 0} f(x) = 1] \\ .2 = [\lim_{x \to 0-} g(x) = -4,\ \lim_{x \to 0+} g(x) = 4,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 5 & \lim_{x \to 0+} f(x) - g(x) = -3 & \lim_{x \to 0-} f(x)\, g(x) = -4 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{-1}{4} & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 5-} f(x) = 5) & .2 = (\lim_{x \to 5+} f(x) = 6) & .3 = (\lim_{x \to 5} f(x) = undefined) \\ .4 = (\lim_{x \to (-5.5)-} f(x) = -5.) & .5 = (\lim_{x \to (-5.5)+} f(x) = -5.) & .6 = (\lim_{x \to (-5.5)} f(x) = -5.) \end{bmatrix}$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = 2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = 2] \\ .2 = [\lim_{x \to 0-} g(x) = -4,\ \lim_{x \to 0+} g(x) = 4,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \begin{bmatrix} \lim_{x \to 0-} f(x) + g(x) = -2 & \lim_{x \to 0+} f(x) - g(x) = -2 & \lim_{x \to 0+} f(x)\, g(x) = 8 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{-1}{2} & \lim_{x \to 0} f(x)\, g(x) = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 4-} f(x) = 4) & .2 = (\lim_{x \to 4+} f(x) = 5) & .3 = (\lim_{x \to 4} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.2)-} f(x) = -4.) & .5 = (\lim_{x \to (-4.2)+} f(x) = -4.) & .6 = (\lim_{x \to (-4.2)} f(x) = -4.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = 5, \lim_{x \to 0+} f(x) = 5, \lim_{x \to 0} f(x) = 5] \\ .2 = [\lim_{x \to 0-} g(x) = -4, \lim_{x \to 0+} g(x) = 4, \lim_{x \to 0} g(x) = undefined] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0-} f(x) + g(x) = 1 & \lim_{x \to 0-} f(x) - g(x) = 9 & \lim_{x \to 0+} f(x)\, g(x) = 20 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = \frac{5}{4} & \lim_{x \to 0} f(x)\, g(x) = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 3-} f(x) = 3) & .2 = (\lim_{x \to 3+} f(x) = 4) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-2.6)-} f(x) = -2.) & .5 = (\lim_{x \to (-2.6)+} f(x) = -2.) & .6 = (\lim_{x \to (-2.6)} f(x) = -2.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -4,\ \lim_{x \to 0+} f(x) = 4,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = -2,\ \lim_{x \to 0+} g(x) = -2,\ \lim_{x \to 0} g(x) = -2] \\ .3 = \begin{bmatrix} \lim_{x \to 0+} f(x) + g(x) = 2 & \lim_{x \to 0-} f(x) - g(x) = -2 & \lim_{x \to 0-} f(x)\, g(x) = 8 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = -2 & \lim_{x \to 0} \frac{f(x)}{g(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 4-} f(x) = 4) & .2 = (\lim_{x \to 4+} f(x) = 5) & .3 = (\lim_{x \to 4} f(x) = undefined) \\ .4 = (\lim_{x \to (-5.2)-} f(x) = -5.) & .5 = (\lim_{x \to (-5.2)+} f(x) = -5.) & .6 = (\lim_{x \to (-5.2)} f(x) = -5.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -3,\ \lim_{x \to 0+} f(x) = 3,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = 3,\ \lim_{x \to 0+} g(x) = 3,\ \lim_{x \to 0} g(x) = 3] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = 6 & \lim_{x \to 0-} f(x) - g(x) = -6 & \lim_{x \to 0-} f(x)\, g(x) = -9 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = 1 & \lim_{x \to 0} f(x)\, g(x) = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 5-} f(x) = 4) & .2 = (\lim_{x \to 5+} f(x) = 5) & .3 = (\lim_{x \to 5} f(x) = undefined) \\ .4 = (\lim_{x \to (-3.2)-} f(x) = -4.) & .5 = (\lim_{x \to (-3.2)+} f(x) = -4.) & .6 = (\lim_{x \to (-3.2)} f(x) = -4.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = -2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = 2,\ \lim_{x \to 0+} g(x) = 2,\ \lim_{x \to 0} g(x) = 2] \\ .3 = \begin{bmatrix} \lim_{x \to 0-} f(x) + g(x) = 0 & \lim_{x \to 0-} f(x) - g(x) = -4 & \lim_{x \to 0+} f(x)\, g(x) = 4 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = 1 & \lim_{x \to 0} f(x) + g(x) = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 3-} f(x) = 3) & .2 = (\lim_{x \to 3+} f(x) = 4) & .3 = (\lim_{x \to 3} f(x) = undefined) \\ .4 = (\lim_{x \to (-5.1)-} f(x) = -5.) & .5 = (\lim_{x \to (-5.1)+} f(x) = -5.) & .6 = (\lim_{x \to (-5.1)} f(x) = -5.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = 1,\ \lim_{x \to 0+} g(x) = 1,\ \lim_{x \to 0} g(x) = 1] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0-} f(x) + g(x) = -1 & \lim_{x \to 0+} f(x) - g(x) = 1 & \lim_{x \to 0-} f(x)\, g(x) = -2 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = 2 & \lim_{x \to 0} f(x)\, g(x) = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 4-} f(x) = 3) & .2 = (\lim_{x \to 4+} f(x) = 4) & .3 = (\lim_{x \to 4} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.2)-} f(x) = -5.) & .5 = (\lim_{x \to (-4.2)+} f(x) = -5.) & .6 = (\lim_{x \to (-4.2)} f(x) = -5.) \end{array} \right]$$

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$$Ans2 = \begin{bmatrix} .1 = [\lim_{x \to 0-} f(x) = 2,\ \lim_{x \to 0+} f(x) = 2,\ \lim_{x \to 0} f(x) = 2] \\ .2 = [\lim_{x \to 0-} g(x) = -3,\ \lim_{x \to 0+} g(x) = 3,\ \lim_{x \to 0} g(x) = undefined] \\ .3 = \begin{bmatrix} \lim_{x \to 0-} f(x) + g(x) = -1 & \lim_{x \to 0+} f(x) - g(x) = -1 & \lim_{x \to 0+} f(x)\, g(x) = 6 \\ \lim_{x \to 0-} \frac{f(x)}{g(x)} = \frac{-2}{3} & \lim_{x \to 0} \frac{f(x)}{g(x)} = undefined & Math@MUT \end{bmatrix} \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = (\lim_{x \to 5-} f(x) = 5) & .2 = (\lim_{x \to 5+} f(x) = 6) & .3 = (\lim_{x \to 5} f(x) = undefined) \\ .4 = (\lim_{x \to (-4.2)-} f(x) = -4.) & .5 = (\lim_{x \to (-4.2)+} f(x) = -4.) & .6 = (\lim_{x \to (-4.2)} f(x) = -4.) \end{bmatrix}$$

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$$Ans2 = \left[\begin{array}{c} .1 = [\lim_{x \to 0-} f(x) = -1, \lim_{x \to 0+} f(x) = 1, \lim_{x \to 0} f(x) = undefined] \\ .2 = [\lim_{x \to 0-} g(x) = -3, \lim_{x \to 0+} g(x) = -3, \lim_{x \to 0} g(x) = -3] \\ .3 = \left[\begin{array}{ccc} \lim_{x \to 0+} f(x) + g(x) = -2 & \lim_{x \to 0-} f(x) - g(x) = 2 & \lim_{x \to 0-} f(x)\, g(x) = 3 \\ \lim_{x \to 0+} \frac{f(x)}{g(x)} = \frac{-1}{3} & \lim_{x \to 0} \frac{g(x)}{f(x)} = undefined & Math@MUT \end{array} \right] \end{array} \right]$$

$$Ans3 = \left[\begin{array}{ccc} .1 = (\lim_{x \to 4-} f(x) = 4) & .2 = (\lim_{x \to 4+} f(x) = 5) & .3 = (\lim_{x \to 4} f(x) = undefined) \\ .4 = (\lim_{x \to (-5.1)-} f(x) = -5.) & .5 = (\lim_{x \to (-5.1)+} f(x) = -5.) & .6 = (\lim_{x \to (-5.1)} f(x) = -5.) \end{array} \right]$$

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