























Limit02\_piecewise Answers for No.10626

Ans01 > x | 0.8000| 0.9000| 0.9900| 0.9990| 0.9999|...| a = 1 |...| 1.0001| 1.0010| 1.0100| 1.1000| 1.2000|
f(x) | 6.8000| 6.9000| 6.9900| 6.9990| 6.9999|...| f( 1) = NA |...|-10.0007|-10.0070|-10.0700|-10.7000|-11.4000|

lim\_{x -> 1-} f(x) = 7, lim\_{x -> 1+} f(x) = -10, lim\_{x -> 1} f(x) = does not exist, "# f(x) is discontinuous at x = 1"

Ans02 > x | 2.8000| 2.9000| 2.9900| 2.9990| 2.9999|...| a = 3 |...| 3.0001| 3.0010| 3.0100| 3.1000| 3.2000|
f(x) | 2.0000| 2.0000| 2.0000| 2.0000| 2.0000|...| f( 3) = 2 |...| 4.0001| 4.0010| 4.0100| 4.1000| 4.2000|

lim\_{x -> 3-} f(x) = 2, lim\_{x -> 3+} f(x) = 4, lim\_{x -> 3} f(x) = does not exist, "# f(x) is discontinuous at x = 3"

Ans03 > x | 7.8000| 7.9000| 7.9900| 7.9990| 7.9999|...| a = 8 |...| 8.0001| 8.0010| 8.0100| 8.1000| 8.2000|
f(x) | 4.0000| 4.0000| 4.0000| 4.0000| 4.0000|...| f( 8) = 4 |...| 3.9999| 3.9990| 3.9900| 3.9000| 3.8000|

lim\_{x -> 8-} f(x) = 4, lim\_{x -> 8+} f(x) = 4, lim\_{x -> 8} f(x) = 4, "# f(x) is continuous at x = 8"

Table with 6 columns: a, f(a), LH-Limit, RH-Limit, Limit, Continuity. Contains data for Ans04, Ans05, and Ans06.

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