exercise 5

(a)

(b)

(c)

(d)

plenty more limit and continuity exercises in your tutorial...

discontinuity

Determine whether each function is continuous at the given x-values.
Justify using the continuity test. If discontinuous, identify the type of discontinuity.

(a) $f(x) = 3x^2 + x - 7$ at $x = 1$

(b) $f(x) = \dfrac{|2x|}{x}$ at $x = 0$

(c) $f(x) = \dfrac{x^2 - 4}{x + 2}$ at $x = -2$

(d) $f(x) = \dfrac{1}{3x^2}$ at $x = 0$

plenty more limit and continuity exercises in your tutorial...

continuity and differentiability