Unit 2 PRACTICE Test:
 Functions
 Part 1: Function Notation (skinny screens only)

 AIF3.02
 DATE:

0. k(x) is another way of writing _____. Why use function notation?

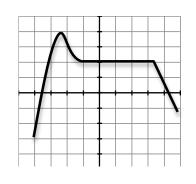
1. Use the functions to find the following. Simplify where possible – expand and combine like terms.

- f(x) = 6 5x $g(x) = x^2 4$ $h(x) = \sqrt{x 3}$ $j(x) = \frac{16}{x}$ k(x) = 42a. g(3) = b. j(-2) = c. h(19) =
- d. k(100) = e. f(x-3) = f. g(x+1) =

g. Find x if f(x) = -49 h. Find x if g(x) = 32 i. Find x if j(x) = 64

*j. f(g(x)) = *k. g(h(x)) = *l. h(f(x)) =

- 2. Use the graph to find the indicated values.
- a. f(-2) = b. f(1) =



c.
$$f(-4) = d$$
. Find x if $f(x) = 4$

e. Find x if
$$f(x) = 3$$
 f. $f(-5) =$

3. Little Joey loves to ride on the Ferris wheel at the mall. Each ride costs \$2.50 and that's all that he wants to spend his money on. The amount of spending money he has left from the \$20 that his grandfather gave him can be represented by C(r) = 20 - 2.5r.

a. Find C(2) b. Explain what C(2) represents in Joey's world.

c. Find r when C(r) = 0

d. Explain what C(r) = 0 represents in Joey's world.

e. Find C(9)

f. Explain what C(9) represents in Joey's world.

g. Graph C(r). Draw your own axes and indicate a scale.

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