

Basic Skill 3

Date _____ Period _____

Evaluate each function.

1) $h(n) = n^2 - 1$; Find $h(-5)$

2) $f(x) = 2x$; Find $f(x - 1)$

Perform the indicated operation. State any BAD VALUES in needed.

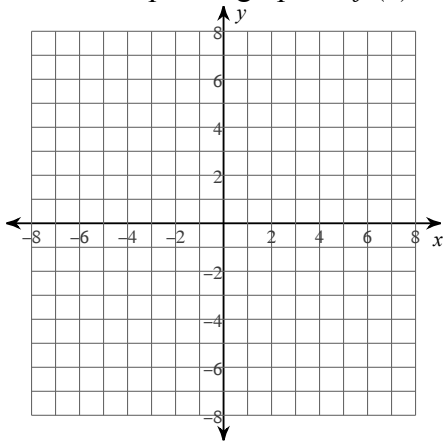
3) $h(x) = 4x - 1$
 $g(x) = -2x + 2$
Find $(h + g)(x)$

4) $g(x) = 4x - 2$
 $h(x) = 2x + 5$
Find $(g - h)(x)$

5) $g(x) = 3x^2 + 4x$
 $h(x) = 3x$
Find $(g \cdot h)(x)$

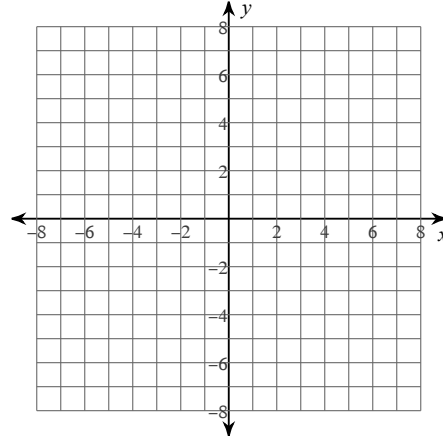
6) $h(t) = 2t + 2$
 $g(t) = 3t - 4$
Find $\left(\frac{h}{g}\right)(t)$

7) Sketch the parent graph of $f(x) = x^2$



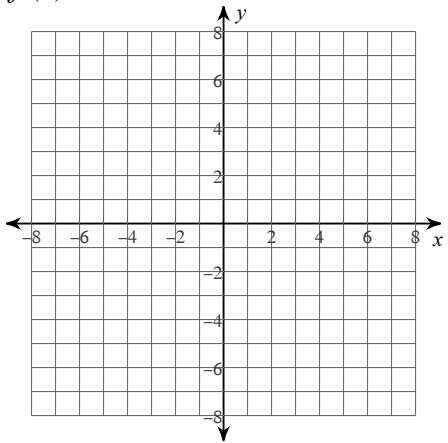
8) Graph the following quadratics in VERTEX FORM.

$$f(x) = (x - 3)^2 - 4$$



9) Graph the following quadratics in VERTEX FORM.

$$f(x) = -2x^2$$



10) Graph the following quadratics in VERTEX FORM.

$$f(x) = -(x + 1)^2 - 2$$

