

## Functions and Graphing

### Preparing for Composition

Evaluate each function.

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

2)  $h(n) = n - 5$ ; Find  $h(-3 - n)$

3)  $h(n) = 3n - 3$ ; Find  $h(n + 1)$

4)  $g(n) = -2n - 2$ ; Find  $g(n^2)$

5)  $k(a) = a + 2$ ; Find  $k(4a)$

6)  $k(t) = 2t + 5$ ; Find  $k(t - 1)$

7)  $g(x) = 3x$ ; Find  $g(-x)$

8)  $h(n) = 4n - 2$ ; Find  $h(-4n)$

9)  $w(x) = -|-3x + 1|$ ; Find  $w(-2x)$

10)  $g(a) = 5^a$ ; Find  $g(4t)$

11)  $h(x) = x^2 - 5x$ ; Find  $h(-2x)$

12)  $p(t) = t^3 - 5t^2$ ; Find  $p\left(\frac{t}{3}\right)$

13)  $f(t) = 2^{2t} + 3$ ; Find  $f(2t)$

14)  $f(x) = -2 \cdot 5^x + 3$ ; Find  $f(x^2)$

15)  $f(x) = 2 \cdot 5^{2x+3}$ ; Find  $f(3x)$

16)  $p(t) = t^2 + t$ ; Find  $p(t + 2)$