

For each, use the slope formula to find the slope of the line that passes through the 2 given points.

1)  $(6, -20), (-9, -19)$

2)  $(10, 11), (10, 2)$

3)  $(17, 19), (15, 1)$

4)  $(-19, 9), (18, 9)$

For each, write the slope-intercept form of the line whose information is given.

5) through:  $(3, -5)$ , slope = 0

6) through:  $(3, 1)$ , slope = 3

7) through:  $(-4, -2)$ , slope =  $\frac{5}{7}$

8) through:  $(1, 2)$  and  $(3, 1)$

9) through:  $(3, 1)$  and  $(4, -1)$

10) through:  $(-1, -4)$  and  $(0, -1)$

Find the missing value, given 2 points that each line passes through as well as their slope.

11)  $(5, y)$  and  $(4, 3)$ ; slope:  $-11$

12)  $(-1, -6)$  and  $(x, 9)$ ; slope:  $\frac{3}{2}$

Evaluate each.

12)  $g(x) = -2x + 2$ ; Find  $g(-10)$

13)  $h(x) = 4x + 4$ ; Find  $h(x) = 20$

14)  $h(x) = x^2 + 4x$ ; Find  $h(7)$

15)  $h(a) = a + 5$ ; Find  $h(x) = 27$