

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

1) $(1, 12), (-17, 13)$

2) $(-17, -13), (-17, 3)$

3) $(-19, -5), (11, 7)$

4) $(-9, 12), (-6, -6)$

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

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

6) through: $(-5, -2)$, slope = 0

7) through: $(-3, 2)$, slope = undefined

8) through: $(0, -3)$ and $(-5, 4)$

9) through: $(-4, 5)$ and $(2, 0)$

10) through: $(0, -2)$ and $(1, 3)$

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

11) $(x, -2)$ and $(-9, 1)$; slope: -3

12) $(-6, y)$ and $(-5, 6)$; slope: 1

Evaluate each,

12) $h(x) = 2x + 1$; Find $h(8)$

13) $k(x) = 4x + 1$; Find $k(-10)$

14) $m(x) = 2x - 4$; Find $m(x) = -40$

15) $f(x) = -4x + 4$; Find $f(x) = 16$

16) $p(x) = x - 1$; Find $p\left(\frac{1}{3}\right)$

17) $g(x) = -2x - 3$; Find $g(x) = 22$