

## 6.2 - Practice

Date \_\_\_\_\_

**Find the slope of a line parallel to each given line.**

1)  $-y + 2x = -2$

2

2)  $0 = x + 4y - 4$

 $-\frac{1}{4}$ 

3)  $-x - 1 = 0$

Undefined

4)  $-2y = -x$

 $\frac{1}{2}$ 

5)  $-x - y + 3 = 0$

-1

6)  $y = 5$

0

**Write the slope-intercept form of the equation of the line described.**

7) through:  $(-3, -2)$ , parallel to  $y = 2x + 1$

$y = 2x + 4$

8) through:  $(-2, 5)$ , parallel to  $y = -5$

$y = 5$

9) through:  $(-1, 3)$ , parallel to  $y = -8x - 3$

$y = -8x - 5$

10) through:  $(-5, -2)$ , parallel to  $y = \frac{7}{5}x$

$y = \frac{7}{5}x + 5$

11) through:  $(-4, -2)$ , parallel to  $y = \frac{7}{4}x$

$y = \frac{7}{4}x + 5$

12) through:  $(-2, -2)$ , parallel to  $y = -x - 1$

$y = -x - 4$

**Find the slope of a line perpendicular to each given line.**

13)  $-8 + 2y + x = 0$

2

14)  $-4x + 2 - y = 0$

 $\frac{1}{4}$ 

15)  $-3y + 3 = -x$

-3

16)  $0 = y - 4$

Undefined

17)  $0 = 4y - 3x + 4$

 $-\frac{4}{3}$ 

18)  $-x = 4$

0

**Write the slope-intercept form of the equation of the line described.**

19) through:  $(3, -3)$ , perp. to  $y = \frac{3}{4}x - 2$

$$y = -\frac{4}{3}x + 1$$

20) through:  $(-4, 0)$ , perp. to  $y = 4x - 3$

$$y = -\frac{1}{4}x - 1$$

21) through:  $(-5, 0)$ , perp. to  $y = -\frac{5}{2}x - 5$

$$y = \frac{2}{5}x + 2$$

22) through:  $(5, -4)$ , perp. to  $y = -5x + 3$

$$y = \frac{1}{5}x - 5$$

23) through:  $(-3, 1)$ , perp. to  $y = -\frac{3}{2}x - 4$

$$y = \frac{2}{3}x + 3$$

24) through:  $(-2, -2)$ , perp. to  $y = -\frac{1}{3}x + 3$

$$y = 3x + 4$$

**6.1 REVIEW - Write the slope-intercept form of the equation of the line through the given points.**

25) through:  $(-3, 4)$  and  $(-5, 4)$

$$y = 4$$

26) through:  $(-1, -2)$  and  $(-1, -5)$

$$x = -1$$

27) through:  $(2, -2)$  and  $(-5, 5)$

$$y = -x$$

28) through:  $(0, 3)$  and  $(1, -4)$

$$y = -7x + 3$$

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

$$y = -3x - 6$$

30) through:  $(2, -3)$  and  $(0, 2)$

$$y = -\frac{5}{2}x + 2$$