

## 6.2 - Practice

Date \_\_\_\_\_

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

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

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

3)  $-x - 1 = 0$

4)  $-2y = -x$

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

6)  $y = 5$

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

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

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

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

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

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

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

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

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

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

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

16)  $0 = y - 4$

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

18)  $-x = 4$

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

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

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

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

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

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

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

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

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

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

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

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

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

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