Chapter 5 More Practice

Date Period

Write the SLOPE-INTERCEPT form of the equation of the line described.

1) through: (2, 5), perp. to $y = (-\frac{1}{5})x - 5$

$$y = 5x - 5$$

$$\perp m = 5$$

$$7/s$$
 $1/s = 5(x-2)$
 $1/s = 5x - 10$
 $1/s = 5x - 10$

2) through: (3, 3), perp. to $y = (-\frac{3}{5})^2 + 4$

$$y = \frac{5}{3}x - 2$$

$$P/s$$
 $y-3=\frac{5}{3}(x-3)$
 $y-3=\frac{5}{3}x-5$
 $y-3=\frac{5}{3}x-5$
 $y=\frac{5}{3}-2$

Write the POINT-SLOPE form of the equation of the line described.

- 1) Parallel lines have the same slopes.
- 2) Perpendicular lines have the negative reciprocal slopes.
- 3) through: (5, -5), parallel to $y = \frac{8}{5}x + 5$
- 4) through: (2, 3), parallel to $y = \frac{1}{2}x + 4$ // $m = \frac{1}{2}$
- 5) through: (4, 3), perp. to $y = (-\frac{4}{5})^2 2$ $y-3=\frac{5}{4}(x-4)$, $1m=\frac{5}{4}$
- 6) through: (-5, 4), perp. to $y = \frac{1}{3}x 2$ y-4=-3(x+5)

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Write the SLOPE-INTERCEPT form of the equation of the line described.

7) through:
$$(-1, -3)$$
, parallel to $y = 5x - 4$

P/S
$$\sqrt{+3} = 5(X+1)$$

 $\sqrt{+3} = 5x + 5$
 $\sqrt{4} = 5x + 5$
 $\sqrt{4} = 5x + 5$
 $\sqrt{4} = 5x + 2$

8) through: (3, 5), parallel to
$$y = \frac{2}{3}x + 2$$

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

$$p/S \ Y - S = \frac{2}{3}(X - 3)$$

$$y - S = \frac{2}{3}(X - 3)$$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

9) through:
$$(-4, 1)$$
, slope = -2

$$y = -2x - 7$$

$$P/S \quad 1 - 1 = -2(x + 4)$$

$$1 \quad 1 - 2 \cdot 1 = -2 \cdot 1 =$$

10) through:
$$(-1, 5)$$
, slope = -3

through:
$$(-1, 5)$$
, slope = -3
 $y = -3x + 2$
 $y = -3x + 2$
 $y = -3x + 2$
 $y = -3x + 3$
 $y = -3x + 3$
 $y = -3x + 2$

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

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

$$M = \Delta Y = \frac{4-1}{\Delta x} = \frac{3}{-2} \qquad M = \frac{-3}{2}$$

$$P/S$$
 $Y-4=\frac{-3}{2}(X+4)$
 $Y-4=\frac{-3}{2}(X+4)$
 $Y-4=\frac{-3}{2}X-6$
 $+4$
 $Y=\frac{-3}{2}X-2$