Homework 35.3

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Solve each equation by factoring.

1)
$$p^2 - 3p - 4 = 0$$

$$2) \ x^2 + 13x + 40 = 0$$

3)
$$3m^2 + 20m + 32 = 0$$

4)
$$14n^2 - 19n - 40 = 0$$

- 5) Write the function the has x-intercepts at (3,0) and (-5,0).
- 6) Write the function that has x-intercepts at (-9,0) and (-1,0).

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

7) through:
$$(-2, 4)$$
, slope = 0

8) through:
$$(-5, -2)$$
, slope = $\frac{6}{5}$

Solve each system by elimination.

9)
$$3x - 2y = 20$$

 $9x + 2y = -20$

10)
$$-5x - 5y = 10$$

 $-8x + 5y = 29$

2) {-8, -5}

3) $\left\{-\frac{8}{3}, -4\right\}$ 7) y = 4

 $4) \left\{-\frac{8}{7}, \frac{5}{2}\right\}$

5) y = (x-3)(x+5) 6) y = (x+9)(x+1)

8) $y = \frac{6}{5}x + 4$

9) (0, -10)

10) (-3, 1)