

Homework 35.2

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Solve each equation by factoring.

1) $r^2 + 14r + 48 = 0$

2) $m^2 + 3m - 28 = 0$

3) $2n^2 + 19n + 35 = 0$

4) $7x^2 - 40x + 25 = 0$

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: $(-5, 4)$, slope $= -\frac{8}{5}$

8) through: $(0, -1)$, slope = undefined

Solve each system by elimination.

9) $-8x - 3y = -17$
 $8x - 7y = -13$

10) $7x - 10y = 11$
 $-4x + 10y = -2$

Answers to Homework 35.2

1) $\{-8, -6\}$

2) $\{4, -7\}$

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

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

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

6) $y = (x + 9)(x + 1)$

7) $y = -\frac{8}{5}x - 4$

8) $x = 0$

9) $(1, 3)$

10) $(3, 1)$