

Homework 35.1

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Solve each equation by factoring.

1) $r^2 - r - 30 = 0$

2) $x^2 - 4x + 3 = 0$

3) $7x^2 - 24x + 9 = 0$

4) $2b^2 + 7b + 3 = 0$

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: (1, 5), slope = 1

8) through: (2, -2), slope = undefined

Solve each system by elimination.

9)
$$\begin{array}{r} -x + 6y = 11 \\ x - 8y = -15 \end{array}$$

10)
$$\begin{array}{r} -7x - 6y = -6 \\ 7x + 10y = -18 \end{array}$$

Answers to Homework 35.1

1) $\{6, -5\}$

2) $\{1, 3\}$

3) $\left\{\frac{3}{7}, 3\right\}$

4) $\left\{-\frac{1}{2}, -3\right\}$

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

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

7) $y = x + 4$

8) $x = 2$

9) $(1, 2)$

10) $(6, -6)$