

**Homework 39.1**

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**Solve each equation. Remember to check for extraneous solutions.**

1)  $\sqrt{b} = 5$

2)  $4 = \sqrt{n}$

3)  $3 = \sqrt{19 - x}$

4)  $-7\sqrt{11x - 10} = -70$

5)  $\sqrt{3n + 19} = 7$

6)  $\sqrt{\frac{k}{10}} + 4 = 12$

**Solve each system by elimination.**

7) 
$$\begin{aligned} -14x + 10y &= 16 \\ 7x + 5y &= 22 \end{aligned}$$

8) 
$$\begin{aligned} 6x + 8y &= -10 \\ -2x - 9y &= -22 \end{aligned}$$

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

9) through:  $(1, -5)$  and  $(5, 3)$

10) through:  $(1, -1)$  and  $(-3, -3)$

## Answers to Homework 39.1

1)  $\{25\}$

5)  $\{10\}$

9)  $y = 2x - 7$

2)  $\{16\}$

6)  $\{640\}$

10)  $y = \frac{1}{2}x - \frac{3}{2}$

3)  $\{10\}$

7)  $(1, 3)$

4)  $\{10\}$

8)  $(-7, 4)$