

## Solving Systems of 2 Equations

**A5***Copy problems onto your own paper and show work.***Solve by substitution. Give answers in  $(x, y)$  form.**

$$\begin{array}{llll}
 1. \quad \begin{array}{l} 2x - 5y = 9 \\ y = 3x - 7 \end{array} &
 2. \quad \begin{array}{l} -3x + 4y = 1 \\ x = 2y + 1 \end{array} &
 3. \quad \begin{array}{l} 6x + 2y = 11 \\ 4x + y = 6 \end{array} &
 4. \quad \begin{array}{l} x - 2y = -1 \\ 5x - 7y = 4 \end{array}
 \end{array}$$

**Solve by linear combination (addition elimination). Give answers in  $(x, y)$  form.**

$$\begin{array}{llll}
 5. \quad \begin{array}{l} 5x + y = 6 \\ -5x + 3y = -22 \end{array} &
 6. \quad \begin{array}{l} 2x - 3y = 4 \\ 8x + 3y = 1 \end{array} &
 7. \quad \begin{array}{l} 2x - 7y = -10 \\ 3x + 2y = 10 \end{array} &
 8. \quad \begin{array}{l} -5x + y = 17 \\ 3x + 2y = 8 \end{array}
 \end{array}$$

$$\begin{array}{ll}
 9. \quad \begin{array}{l} 5x - 2y = -15 \\ 7x + 5y = 18 \end{array} &
 10. \quad \begin{array}{l} 3x + 4y = -6 \\ 7x + 5y = -1 \end{array}
 \end{array}$$

**Review:** Solve and graph the solution on a number line.

$$\begin{array}{ll}
 11. \quad -11 \leq 4x + 5 \leq 13 &
 12. \quad \frac{-2}{3}x - 4 > 10 \text{ or } 5(x + 3) > 2x + 30
 \end{array}$$

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