Homework 2.7 Solving System of Equations Algebraically

Solving each system using the substitution method.

$$1 \cdot \left\{ \begin{array}{c} y = 6x - 11 \\ -2x - 3y = -7 \end{array} \\ 2 \cdot \left\{ \begin{array}{c} 2x - 3y = -1 \\ y = x - 1 \end{array} \\ 3 \cdot \left\{ \begin{array}{c} -7x - 2y = -13 \\ x = 2y + 11 \end{array} \\ \end{array} \\ 4 \cdot \left\{ \begin{array}{c} y = -2 \\ 4x - 3y = 18 \end{array} \\ 5 \cdot \left\{ \begin{array}{c} y = 5x - 7 \\ -3x - 2y = -12 \end{array} \\ 6 \cdot \left\{ \begin{array}{c} -3x - 3y = -15 \\ x = -3y + 1 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ 7 \cdot \left\{ \begin{array}{c} -3x + 3y = 4 \\ x = 3 - y \end{array} \\ 8 \cdot \left\{ \begin{array}{c} 6x + 6y = -6 \\ y = -13 - 5x \end{array} \\ 9 \cdot \left\{ \begin{array}{c} y = -2x + 20 \\ 6x - 5x = 12 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ 9 \cdot \left\{ \begin{array}{c} y = -2x + 20 \\ 6x - 5x = 12 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array}$$

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Solving each system using the elimination method.

$$10. \begin{cases} -4x - 2y = -12 \\ 4x + 8y = -24 \end{cases} \qquad 11. \begin{cases} x - y = 11 \\ 2x + y = 19 \end{cases} \qquad 12. \begin{cases} -2x - 9y = -25 \\ -4x - 9y = -23 \end{cases}$$



$$16. \begin{cases} -7x - 8y = 9\\ -4x + 9y = -22 \end{cases}$$

$$17. \begin{cases} 5x + 4y = -30\\ 3x - 9y = -18 \end{cases}$$

$$18. \begin{cases} 2x + 8y = 6\\ -5x - 20y = -15 \end{cases}$$

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