

Name:
AlgebraSSW2D2

Date:

Solve the system for each variable:

(1)

(2)

$$\begin{aligned}10x - 3y &= -24 \\ -50x + 3y &= 144\end{aligned}$$

$$\begin{aligned}5x - 10y &= 10 \\ 15x + y &= -1\end{aligned}$$

(3)

(4)

$$\begin{aligned}x + 8y &= 68 \\ -2x + 6y &= 40\end{aligned}$$

$$\begin{aligned}-6x + 10y &= 66 \\ -36x + 3y &= 225\end{aligned}$$

(5)

(6)

$$\begin{aligned}x - 9y &= -85 \\ 3x + 2y &= 35\end{aligned}$$

$$\begin{aligned}3x - 5y &= -7 \\ 9x - 5y &= -31\end{aligned}$$

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(7)

$$\begin{aligned}-10x + 10y &= 30 \\ 30x - 4y &= 66\end{aligned}$$

(8)

$$\begin{aligned}7x - 10y &= 24 \\ 21x - 10y &= 52\end{aligned}$$

(9)

$$\begin{aligned}-4x + 7y &= 75 \\ -12x + 6y &= 150\end{aligned}$$

(10)

$$\begin{aligned}9x - 3y &= 75 \\ -54x + 8y &= -440\end{aligned}$$

(11)

$$\begin{aligned}2x + y &= -12 \\ -10x - 7y &= 52\end{aligned}$$

(12)

$$\begin{aligned}-4x + 5y &= -78 \\ 20x - 4y &= 180\end{aligned}$$

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(13)

$$\begin{aligned}6x + y &= 27 \\ -54x - 2y &= -306\end{aligned}$$

(14)

$$\begin{aligned}-6x - 9y &= -57 \\ -48x + 2y &= 210\end{aligned}$$

(15)

$$\begin{aligned}10x - 6y &= -8 \\ -60x - 2y &= 124\end{aligned}$$

(16)

$$\begin{aligned}-5x - 6y &= -105 \\ 30x + 5y &= 320\end{aligned}$$

(17)

$$\begin{aligned}-8x + 10y &= -20 \\ 72x - 6y &= -660\end{aligned}$$

(18)

$$\begin{aligned}-5x - 7y &= 75 \\ 20x + 2y &= -170\end{aligned}$$

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(19)

$$\begin{aligned}-5x + 3y &= 65 \\ -10x + 4y &= 120\end{aligned}$$

(20)

$$\begin{aligned}-4x - 9y &= 27 \\ 24x + 5y &= -15\end{aligned}$$

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Version 1 Answer Key!

- (1) $x = -3, y = -2$
- (2) $x = 0, y = -1$
- (3) $x = 4, y = 8$
- (4) $x = -6, y = 3$
- (5) $x = 5, y = 10$
- (6) $x = -4, y = -1$
- (7) $x = 3, y = 6$
- (8) $x = 2, y = -1$
- (9) $x = -10, y = 5$
- (10) $x = 8, y = -1$
- (11) $x = -8, y = 4$
- (12) $x = 7, y = -10$
- (13) $x = 6, y = -9$
- (14) $x = -4, y = 9$
- (15) $x = -2, y = -2$
- (16) $x = 9, y = 10$
- (17) $x = -10, y = -10$
- (18) $x = -8, y = -5$
- (19) $x = -10, y = 5$
- (20) $x = 0, y = -3$