

Name:  
AlgebraSSW2D4

Date:

Solve the system for each variable:

(1)

(2)

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

$$\begin{aligned}-9x + 4y &= 72 \\ -72x + 6y &= 342\end{aligned}$$

(3)

(4)

$$\begin{aligned}-6x + 4y &= -30 \\ 5x + 9y &= -12\end{aligned}$$

$$\begin{aligned}-8x - 8y &= 56 \\ -5x - 6y &= 39\end{aligned}$$

(5)

(6)

$$\begin{aligned}-9x - 4y &= 8 \\ -90x - 5y &= 325\end{aligned}$$

$$\begin{aligned}-6x - 4y &= 78 \\ 7x - 9y &= 32\end{aligned}$$

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(7)

$$\begin{aligned} -6x + 5y &= 4 \\ 6x + 2y &= -74 \end{aligned}$$

(8)

$$\begin{aligned} -7x + 8y &= -36 \\ 9x + 9y &= 27 \end{aligned}$$

(9)

$$\begin{aligned} 8x + 4y &= 24 \\ -8x + 10y &= 60 \end{aligned}$$

(10)

$$\begin{aligned} 6x - 10y &= -40 \\ -6x - 2y &= 28 \end{aligned}$$

(11)

$$\begin{aligned} -7x - 2y &= -12 \\ 70x + y &= 272 \end{aligned}$$

(12)

$$\begin{aligned} -10x - 7y &= -35 \\ -60x - 2y &= -10 \end{aligned}$$

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(13)

$$\begin{aligned}-10x + 8y &= -122 \\ -9x - 8y &= 27\end{aligned}$$

(14)

$$\begin{aligned}2x - 5y &= -13 \\ 8x + 3y &= -29\end{aligned}$$

(15)

$$\begin{aligned}6x - 3y &= 78 \\ -6x - 2y &= -38\end{aligned}$$

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## Version 1 Answer Key!

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