

Name:
AlgebraSSW2D1

Date:

Solve the system for each variable:

(1) (2)

$$-5x + 8y = -89$$

$$5x + 5y = -15$$

$$-10x + 9y = 9$$

$$10x + y = -99$$

(3) (4)

$$8x - 2y = 4$$

$$-8x - 3y = 6$$

$$2x + 8y = 8$$

$$-2x - 9y = -10$$

(5) (6)

$$-9x + 4y = 110$$

$$9x - 10y = -140$$

$$-6x - 8y = 4$$

$$6x + 9y = -3$$

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(7)

$$\begin{aligned}6x - 2y &= 32 \\ -6x - 6y &= -48\end{aligned}$$

(8)

$$\begin{aligned}2x - 2y &= 14 \\ -2x + 3y &= -22\end{aligned}$$

(9)

$$\begin{aligned}-2x - 4y &= 24 \\ 2x + 8y &= -28\end{aligned}$$

(10)

$$\begin{aligned}6x + 3y &= -51 \\ -6x + 6y &= 42\end{aligned}$$

(11)

$$\begin{aligned}4x + 8y &= 28 \\ -4x - y &= 28\end{aligned}$$

(12)

$$\begin{aligned}3x - 4y &= 12 \\ -3x + 3y &= -12\end{aligned}$$

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(13)

$$\begin{aligned}5x - 3y &= -63 \\ -5x - 3y &= 27\end{aligned}$$

(14)

$$\begin{aligned}8x + 8y &= -32 \\ -8x - 9y &= 35\end{aligned}$$

(15)

$$\begin{aligned}10x - 3y &= 58 \\ -10x - 3y &= -22\end{aligned}$$

(16)

$$\begin{aligned}-4x + 6y &= -34 \\ 4x - 8y &= 32\end{aligned}$$

(17)

$$\begin{aligned}-5x + 8y &= -77 \\ 5x - 7y &= 68\end{aligned}$$

(18)

$$\begin{aligned}9x + 9y &= 63 \\ -9x + 8y &= -46\end{aligned}$$

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(19)

$$\begin{aligned}-8x - 5y &= 122 \\ 8x + 8y &= -152\end{aligned}$$

(20)

$$\begin{aligned}4x + 2y &= 0 \\ -4x + 5y &= 56\end{aligned}$$

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Version 1 Answer Key!

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