

Name:
AlgebraSSW2D1ET

Date:

Solve the system for each variable:
(1)

$$-7x - 4y = -30$$

$$7x - 10y = 170$$

(2)

$$8x + 4y = -108$$

$$-8x - 6y = 126$$

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Version 1 Answer Key!

(1) $x = 10, y = -10$

(2) $x = -9, y = -9$

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(1)

$$\begin{aligned} -7x - 5y &= -8 \\ 7x + 4y &= -2 \end{aligned}$$

(2)

$$\begin{aligned} 6x + 2y &= -34 \\ -6x + 2y &= 2 \end{aligned}$$

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Version 2 Answer Key!

(1) $x = -6, y = 10$

(2) $x = -3, y = -8$

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(1)

$$\begin{aligned}-3x - 2y &= -20 \\ 3x - y &= 35\end{aligned}$$

(2)

$$\begin{aligned}7x - 8y &= 21 \\ -7x + 7y &= -21\end{aligned}$$

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Version 3 Answer Key!

(1) $x = 10, y = -5$

(2) $x = 3, y = 0$

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(1)

$$\begin{aligned}8x - 8y &= 128 \\ -8x - 3y &= -51\end{aligned}$$

(2)

$$\begin{aligned}6x - 8y &= 20 \\ -6x - 5y &= 110\end{aligned}$$

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Version 4 Answer Key!

(1) $x = 9, y = -7$

(2) $x = -10, y = -10$

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(1)

$$\begin{aligned} -x - 2y &= -16 \\ x - y &= -11 \end{aligned}$$

(2)

$$\begin{aligned} 3x + 7y &= 42 \\ -3x - y &= -24 \end{aligned}$$

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Version 5 Answer Key!

(1) $x = -2, y = 9$

(2) $x = 7, y = 3$

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(1)

$$\begin{aligned}-10x - 9y &= 115 \\ 10x - 2y &= -60\end{aligned}$$

(2)

$$\begin{aligned}-8x + 2y &= -58 \\ 8x - 5y &= 73\end{aligned}$$

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Version 6 Answer Key!

(1) $x = -7, y = -5$

(2) $x = 6, y = -5$

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(1)

$$\begin{aligned}2x + y &= 22 \\ -2x + 7y &= 26\end{aligned}$$

(2)

$$\begin{aligned}-9x - 6y &= 90 \\ 9x + 10y &= -114\end{aligned}$$

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Version 7 Answer Key!

(1) $x = 8, y = 6$

(2) $x = -6, y = -6$

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(1)

$$\begin{aligned}-4x - 10y &= 30 \\ 4x + 5y &= -15\end{aligned}$$

(2)

$$\begin{aligned}2x + 2y &= -18 \\ -2x + 2y &= 2\end{aligned}$$

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Version 8 Answer Key!

(1) $x = 0, y = -3$

(2) $x = -5, y = -4$

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(1)

$$\begin{aligned}9x + y &= 56 \\ -9x - 9y &= 0\end{aligned}$$

(2)

$$\begin{aligned}7x + 6y &= -3 \\ -7x - 10y &= 19\end{aligned}$$

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Version 9 Answer Key!

(1) $x = 7, y = -7$

(2) $x = 3, y = -4$

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(1)

$$\begin{aligned}2x - 2y &= 16 \\ -2x - 9y &= -5\end{aligned}$$

(2)

$$\begin{aligned}-10x - 3y &= 40 \\ 10x - 2y &= -90\end{aligned}$$

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Version 10 Answer Key!

(1) $x = 7, y = -1$

(2) $x = -7, y = 10$

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(1)

$$\begin{aligned}-2x - 8y &= 48 \\ 2x + 9y &= -56\end{aligned}$$

(2)

$$\begin{aligned}3x + 3y &= -51 \\ -3x - 9y &= 99\end{aligned}$$

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Version 11 Answer Key!

(1) $x = 8, y = -8$

(2) $x = -9, y = -8$

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(1)

$$\begin{aligned}x - 6y &= 10 \\ -x + 5y &= -8\end{aligned}$$

(2)

$$\begin{aligned}4x + 5y &= -9 \\ -4x + 4y &= 0\end{aligned}$$

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Version 12 Answer Key!

(1) $x = -2, y = -2$

(2) $x = -1, y = -1$

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(1)

$$\begin{aligned}-8x - 3y &= -86 \\ 8x - 9y &= -34\end{aligned}$$

(2)

$$\begin{aligned}8x + 3y &= -47 \\ -8x - 6y &= 62\end{aligned}$$

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Version 13 Answer Key!

(1) $x = 7, y = 10$

(2) $x = -4, y = -5$

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(1)

$$-5x + 4y = 63$$

$$5x + 8y = 21$$

(2)

$$-6x + 6y = -36$$

$$6x + 2y = 12$$

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Version 14 Answer Key!

(1) $x = -7, y = 7$

(2) $x = 3, y = -3$

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(1)

$$\begin{aligned}9x - 2y &= -41 \\ -9x - 3y &= 51\end{aligned}$$

(2)

$$\begin{aligned}-5x - 5y &= 30 \\ 5x - 10y &= 90\end{aligned}$$

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Version 15 Answer Key!

(1) $x = -5, y = -2$

(2) $x = 2, y = -8$