

Name:
AlgebraW2D3ET

Date:

Solve the system for each variable:
(1)

$$\begin{aligned}7x - 5y &= 14 \\ -10x - 10y &= 100\end{aligned}$$

(2)

$$\begin{aligned}6x - 9y &= -12 \\ -5x - 8y &= -114\end{aligned}$$

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Version 1 Answer Key!

(1) $x=-3$, $y=-7$

(2) $x=10$, $y=8$

Name:
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Date:

(1)

$$\begin{aligned}-9x + 2y &= -27 \\ 7x + 3y &= 62\end{aligned}$$

(2)

$$\begin{aligned}-8x - 7y &= -73 \\ -9x - 4y &= -86\end{aligned}$$

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Date:

Version 2 Answer Key!

(1) $x=5$, $y=9$

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

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Date:

(1)

$$9x + 7y = 78$$

$$7x + 2y = 40$$

(2)

$$6x - 9y = -72$$

$$-5x + 8y = 64$$

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Date:

Version 3 Answer Key!

(1) $x=4$, $y=6$

(2) $x=0$, $y=8$

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AlgebraW2D3ET

Date:

(1)

$$\begin{aligned}7x - 3y &= 15 \\ -9x - 9y &= 45\end{aligned}$$

(2)

$$\begin{aligned}7x + 9y &= 86 \\ 9x - 6y &= -30\end{aligned}$$

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Date:

Version 4 Answer Key!

(1) $x=0$, $y=-5$

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

Name:
AlgebraW2D3ET

Date:

(1)

$$\begin{aligned}7x - 3y &= -23 \\ -4x - 8y &= -16\end{aligned}$$

(2)

$$\begin{aligned}3x + 8y &= 86 \\ -4x + 7y &= 9\end{aligned}$$

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Version 5 Answer Key!

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

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

Name:
AlgebraW2D3ET

Date:

(1)

$$-4x + 2y = -26$$

$$-3x - 6y = 18$$

(2)

$$2x - 2y = 10$$

$$-3x - 5y = 17$$

Name:
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Date:

Version 6 Answer Key!

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

(2) $x=1$, $y=-4$

Name:
AlgebraW2D3ET

Date:

(1)

$$\begin{aligned}6x - 9y &= -87 \\ -7x + 2y &= 42\end{aligned}$$

(2)

$$\begin{aligned}-3x + y &= -17 \\ 2x - 2y &= 14\end{aligned}$$

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Date:

Version 7 Answer Key!

(1) $x=-4$, $y=7$

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

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Date:

(1)

$$\begin{aligned}8x + 7y &= 142 \\ -5x + 10y &= 55\end{aligned}$$

(2)

$$\begin{aligned}8x - 5y &= -25 \\ 5x + 9y &= 45\end{aligned}$$

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Date:

Version 8 Answer Key!

(1) $x=9$, $y=10$

(2) $x=0$, $y=5$

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(1)

$$\begin{aligned}-8x - 9y &= 34 \\ 9x - 3y &= 93\end{aligned}$$

(2)

$$\begin{aligned}-4x + 9y &= 67 \\ -3x - 9y &= 3\end{aligned}$$

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Version 9 Answer Key!

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

(2) $x=-10$, $y=3$

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(1)

$$\begin{aligned}7x + 5y &= -59 \\ -10x - y &= 29\end{aligned}$$

(2)

$$\begin{aligned}-8x - 3y &= -29 \\ 3x - 10y &= 22\end{aligned}$$

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Date:

Version 10 Answer Key!

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

(2) $x=4$, $y=-1$

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Date:

(1)

$$\begin{aligned}-3x - 5y &= 8 \\ 8x + 6y &= -36\end{aligned}$$

(2)

$$\begin{aligned}-4x - 5y &= -45 \\ -5x - y &= -51\end{aligned}$$

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Date:

Version 11 Answer Key!

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

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

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AlgebraW2D3ET

Date:

(1)

$$\begin{aligned}9x - 4y &= -5 \\ 10x + 8y &= 94\end{aligned}$$

(2)

$$\begin{aligned}-9x - 8y &= -97 \\ 8x + 6y &= 84\end{aligned}$$

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Version 12 Answer Key!

(1) $x=3, y=8$

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

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AlgebraW2D3ET

Date:

(1)

$$\begin{aligned}7x + 5y &= -18 \\ -6x - 10y &= 44\end{aligned}$$

(2)

$$\begin{aligned}4x - 6y &= 14 \\ 9x - 5y &= 23\end{aligned}$$

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Date:

Version 13 Answer Key!

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

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

Name:
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Date:

(1)

$$\begin{aligned}-10x - 3y &= -69 \\ 9x + y &= 74\end{aligned}$$

(2)

$$\begin{aligned}-4x + y &= 12 \\ 3x + 8y &= 26\end{aligned}$$

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Date:

Version 14 Answer Key!

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

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

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(1)

$$\begin{aligned}7x + 8y &= 55 \\ -3x + 4y &= -31\end{aligned}$$

(2)

$$\begin{aligned}-10x + 6y &= 110 \\ 7x + y &= -25\end{aligned}$$

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Version 15 Answer Key!

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

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