

- 1 Give only the x-coordinate of the solution.
 If the number isn't an integer, enter a fraction.
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$$\begin{cases} -2x + 5y = 15 \\ -7x - 3y = 32 \end{cases} \begin{array}{l} \xrightarrow{\times 3} \\ \xrightarrow{\times 5} \end{array} \begin{array}{l} -6x + 15y = 45 \\ -35x - 15y = 160 \\ \hline -41x = 205 \\ x = -5 \end{array}$$

$$\begin{aligned} -2(-5) + 5y &= 15 \\ 10 + 5y &= 15 \\ 5y &= 5 \\ y &= 1 \end{aligned}$$

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- 2 Give only the x-coordinate of the solution.
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$$\begin{cases} -3x - 7y = -26 \\ -7x - 4y = -36 \end{cases} \begin{array}{l} \xrightarrow{\times 7} \\ \xrightarrow{\times -3} \end{array} \begin{array}{l} -21x - 49y = -182 \\ 21x + 12y = 108 \\ \hline -37y = -74 \\ y = 2 \end{array}$$

$$\begin{array}{r} 4 \\ 26 \\ \underline{7} \\ 182 \end{array} \quad \begin{array}{r} 1 \\ 36 \\ \underline{3} \\ 108 \end{array}$$

$$\begin{aligned} -3x - 7 \cdot 2 &= -26 \\ -3x - 14 &= -26 \\ -3x &= -12 \\ x &= 4 \end{aligned}$$

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- 3 Give only the x-coordinate of the solution.
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$$\begin{cases} 2x - 5y = 7 \\ 8x - 20y = 21 \end{cases}$$

$$+ \frac{\quad}{0x + 0y = -7}$$

$$0 = -7$$

True nowhere.
 Lines cross nowhere.

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- 4 Give only the x-coordinate of the solution.
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$$\begin{cases} 3x - 4y = 2 \\ -9x + 12y = -6 \end{cases}$$

$$\frac{\quad}{0 = 0}$$

True everywhere
 lines cross everywhere
 lines coincide

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- 5 Give only the x-coordinate of the solution.
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$$\begin{cases} 0.04x - 0.08y = -0.4 \\ 0.2x + 0.6y = 0 \end{cases}$$

$$\begin{array}{l} \xrightarrow{\times 100} \\ \xrightarrow{\times 10} \end{array}$$

$$\begin{array}{l} 4x - 8y = -40 \\ 2x + 6y = 0 \end{array}$$

$$\begin{array}{l} \xrightarrow{\text{no change}} \\ \xrightarrow{\times -2} \end{array}$$

$$\begin{array}{l} 4x - 8y = -40 \\ -4x - 12y = 0 \\ \hline -20y = -40 \\ y = 2 \end{array}$$

$$2x + 6 \cdot 2 = 0$$

$$2x + 12 = 0$$

$$2x = -12$$

$$x = -6$$

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- 6 Give only the x-coordinate of the solution.
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$$\begin{cases} \frac{x}{4} + \frac{y}{4} = -1 \\ \frac{x}{3} - \frac{y}{3} = -\frac{10}{3} \end{cases}$$

$$\begin{array}{l} \xrightarrow{\times 4} \\ \xrightarrow{\times 3} \end{array}$$

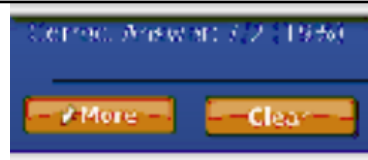
$$\begin{array}{l} x + y = -4 \\ x - y = -10 \\ \hline 2x = -14 \\ x = -7 \end{array}$$

$$-7 + y = -4$$

$$y = 3$$

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$$\begin{cases} \frac{x}{7} + \frac{y}{21} = 1 & \xrightarrow{\times 21} 3x + y = 21 \\ \frac{x}{4} - \frac{y}{12} = 0 & \xrightarrow{\times 12} 3x - y = 0 \end{cases}$$

$$\underline{6x = 21}$$

$$x = \frac{21}{6} = \frac{7}{2}$$

$$\begin{array}{r} 3x + y = 21 \\ -3x + y = 0 \\ \hline 2y = 21 \\ y = \frac{21}{2} \end{array}$$

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- 8 **Give only the x-coordinate of the solution.**
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$$\begin{cases} 5x - 2y = 21 \\ 4x - \frac{3}{2}y = \frac{33}{2} \end{cases}$$

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