

1 Solve the system by using elimination (addition method).

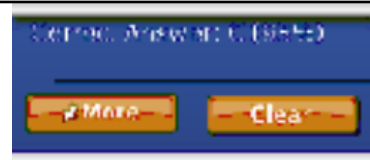
$$\begin{cases} x + y = 3 \\ x - y = -7 \end{cases}$$

$$+ \quad \underline{\quad}$$

$$2x + 0y = -4$$

$$2x = -4$$

- A (3, 10)
- B (1, 2)
- C (-2, 5)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!



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2 Solve the system by using elimination (addition method).

$$\begin{cases} 2x + y = 11 \\ 3x - y = 9 \end{cases}$$

- A (4, 3)
- B (3, 0)
- C (5, 1)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!



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3 Solve the system by using elimination (addition method).

$$\begin{cases} x + 8y = 38 \\ -4x + 8y = 8 \end{cases}$$

- A (30, 1)
- B (-2, 0)
- C (6, 4)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!

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$$\begin{cases} x + 8y = 38 \\ -4x + 8y = 8 \end{cases} \xrightarrow{x-1} \begin{array}{r} x + 8y = 38 \\ 4x - 8y = -8 \\ \hline 5x = 30 \\ x = 6 \end{array}$$

$$\begin{aligned} 6 + 8y &= 38 \\ 8y &= 32 \\ y &= 4 \end{aligned}$$

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- 4 Solve the system by using elimination (addition method).

$$\begin{cases} x - 3y = 1 \\ -2x - 4y = 8 \end{cases} \xrightarrow{\times 2} \begin{cases} 2x - 6y = 2 \\ -2x - 4y = 8 \end{cases}$$

$$\begin{array}{r} 2x - 6y = 2 \\ -2x - 4y = 8 \\ \hline -10y = 10 \\ y = -1 \end{array}$$

- A (1, 0)
 B (-2, -1)
 C (0, -2)
 D No solution; lines are parallel; system is inconsistent.
 E Infinitely many solutions; lines coincide; system is dependant.
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$$\begin{aligned} x - 3(-1) &= 1 \\ x + 3 &= 1 & x &= -2 \end{aligned}$$

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- 5 Solve the system by using elimination (addition method).

$$\begin{cases} x + y = 4 \\ x - y = 4 \end{cases} \xrightarrow{\text{addition}} \begin{cases} 4 + y = 4 \\ y = 0 \end{cases}$$

$$\begin{array}{r} x + y = 4 \\ x - y = 4 \\ \hline 2x = 8 \\ x = 4 \end{array}$$

- A (2, 2)
 B (4, 0)
 C (2, -2)
 D No solution; lines are parallel; system is inconsistent.
 E Infinitely many solutions; lines coincide; system is dependant.
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6 Solve the system by using elimination (addition method).

$$\begin{cases} -3x + 7y = -8 \\ 5x - 3y = 22 \end{cases}$$

- A (5, 1)
- B (2, -4)
- C (-2, -2)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!

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$$\begin{cases} -3x + 7y = -8 \\ 5x - 3y = 22 \end{cases} \begin{array}{l} \xrightarrow{\times 5} \\ \xrightarrow{\times 3} \end{array} \begin{array}{l} -15x + 35y = -40 \\ 15x - 9y = 66 \\ \hline 26y = 26 \\ y = 1 \end{array}$$

$$-3x + 7(1) = -8$$

$$-3x + 7 = -8$$

$$-3x = -15$$

$$x = 5$$

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7 Solve the system by using elimination (addition method).

$$\begin{cases} 3x - 4y = 3 \\ 2x - 5y = 3 \end{cases}$$

- A $(2/3, -1/3)$
 B $(9/5, 3/5)$
 C $(3/7, -3/7)$
 D No solution; lines are parallel; system is inconsistent.
 E Infinitely many solutions; lines coincide; system is dependant.
 F Help!

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$$\begin{cases} 3x - 4y = 3 \\ 2x - 5y = 3 \end{cases} \begin{array}{l} \xrightarrow{\cdot 2} \\ \xrightarrow{\cdot -3} \end{array} \begin{array}{l} 6x - 8y = 6 \\ -6x + 15y = -9 \end{array}$$

$$7y = -3$$

$$y = -\frac{3}{7}$$

$$3x - 4\left(-\frac{3}{7}\right) = 3$$

$$3x + \frac{12}{7} = 3$$

$$3x = \frac{3}{1} - \frac{12}{7}$$

$$3x = \frac{21}{7} - \frac{12}{7}$$

$$3x = \frac{9}{7}$$

$$x = \frac{9}{7} \cdot \frac{1}{3} = \frac{3}{7}$$

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- 8 Solve the system by using elimination (addition method).

$$\begin{cases} 9x - 4y = 8 \\ 18x - 8y = 32 \end{cases}$$

- A (0, 16)
- B (0, -2)
- C (0, 0)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!

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- 9 Solve the system by using elimination (addition method).

$$\begin{cases} 5x - 5y = 5 \\ -10x + 10y = -10 \end{cases}$$

- A (0, 0)
- B (2, 1)
- C (1, 0)
- D No solution; lines are parallel; system is inconsistent.
- E Infinitely many solutions; lines coincide; system is dependant.
- F Help!

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