

2.REV.4 – SOLVING SYSTEMS CIRCUIT

Begin by completing the problem in cell #1. Search for your answer in the remaining cells. Put #2 in the problem blank: # _____. Work that question and proceed in this manner until you complete the circuit.

Solve the system of linear equations algebraically using substitution or elimination or graphically if a coordinate plane is provided. Write your solution as an ordered pair (x, y) . If the system has no solution or infinitely many solutions, then so state. **Work must be shown for credit to be received.**

<p>Answer: $(-1, 2)$</p> <p># 1 $-x - 2y = -6$ $y = -2x + 15$</p>	<p>Answer: $(1, 2)$</p> <p># _____ $3x - 6y = 9$ $3x - 9y = 30$</p>
<p>Answer: $(6, -1)$</p> <p># _____ $6x - 3y = 12$ $y = 2x - 4$</p>	<p>Answer: $(-3, 2)$</p> <p># _____ $2x - 4y = -12$ $7x + 2y = 22$</p>
<p>Answer: $(-11, -7)$</p> <p># _____ $2x + 3y = 12$ $5x - y = 13$</p>	<p>Answer: $(4, 1)$</p> <p># _____ $2x + y = 9$ $y = 5x + 2$</p>
<p>Answer: $(1, 7)$</p> <p># _____ $4x + 8y = -4$ $x - 5y = 20$</p>	<p>Answer: $(3, 2)$</p> <p># _____ $-2x + 5y = -17$ $3x - 10y = 28$</p>

Answer: no solution

$$\begin{aligned} \# \text{ ______ } \quad & -6x - 7y = -26 \\ & -x + 2y = -17 \end{aligned}$$

Answer: infinitely many solutions

$$\begin{aligned} \# \text{ ______ } \quad & 5x + 2y = -1 \\ & 3x + 7y = 11 \end{aligned}$$

Answer: (2, 4)

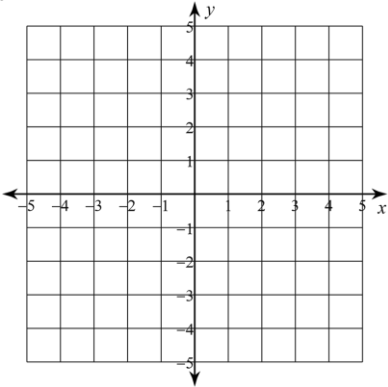
$$\begin{aligned} \# \text{ ______ } \quad & -3x - 8y = -29 \\ & 7x + 8y = 25 \end{aligned}$$

Answer: (9, -4)

$$\begin{aligned} \# \text{ ______ } \quad & 10x + 5y = -5 \\ & 5x + y = -7 \end{aligned}$$

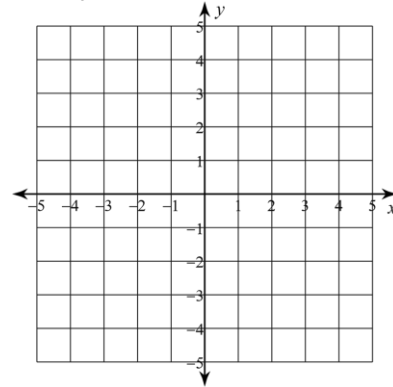
Answer: (5, -3)

$$\begin{aligned} \# \text{ ______ } \quad & y = 3x - 1 \\ & y = -2x + 4 \end{aligned}$$



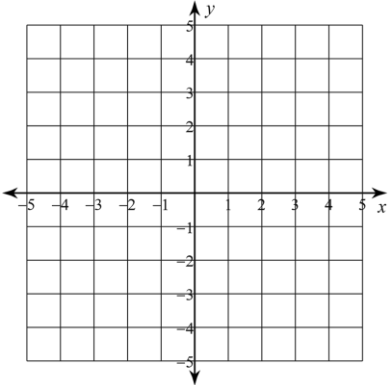
Answer: (-1, 4)

$$\begin{aligned} \# \text{ ______ } \quad & y = x - 3 \\ & x + 4y = 8 \end{aligned}$$



Answer: (-2, 3)

$$\begin{aligned} \# \text{ ______ } \quad & 2x - 3y = -12 \\ & 5x + 3y = -9 \end{aligned}$$



Answer: (8, -1)

$$\begin{aligned} \# \text{ ______ } \quad & y = 3x - 2 \\ & 9x - 3y = -12 \end{aligned}$$

