

Quiz: Solving Systems by Graping and Elimination

Date _____ Period _____

How many solutions does each system have (hint: one, infinitely many, or no solution)?

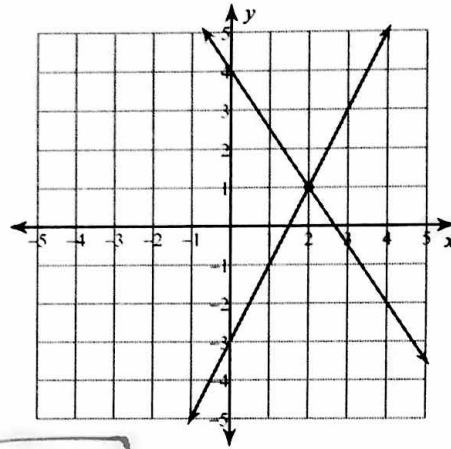
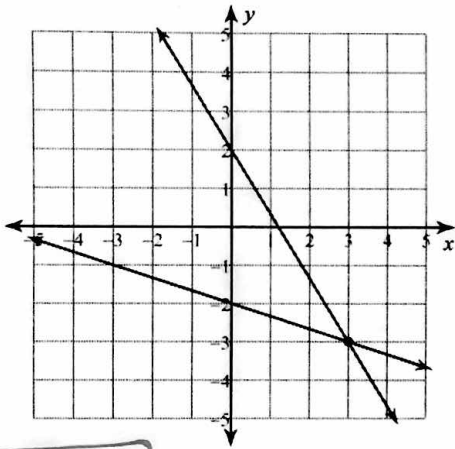
1) $y = -x + 3$ (2, 1)
 $y = \frac{3}{2}x - 2$ **one**

2) $y = 7x + 3$
 $y = 7x - 2$
No solution

Solve each system by graphing.

3) $y = -\frac{1}{3}x - 2$
 $y = -\frac{5}{3}x + 2$

4) $y = 2x - 3$
 $y = -\frac{3}{2}x + 4$

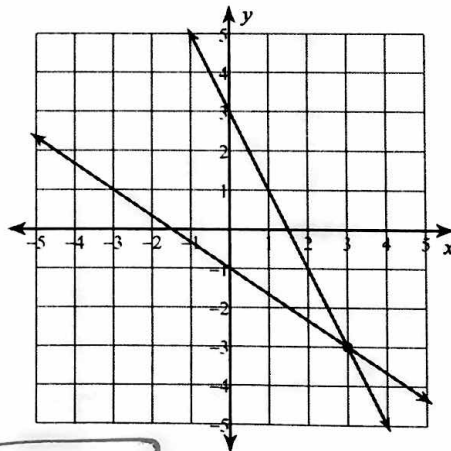
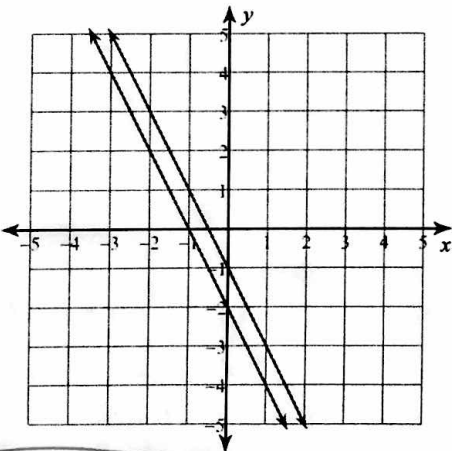


(3, -3)

(2, 1)

5) $2x + y = -2$
 $2x + y = -1$

6) $2x + 3y = -3$
 $2x + y = 3$



No solution

(3, -3)

Solve each system by elimination.

$$\begin{aligned} 7) \quad & -10x - 2y = 11 \\ & 10x + 2y = -12 \end{aligned}$$

No solution

$$\begin{aligned} 8) \quad & -2x - 6y = -26 \\ & 2x + 8y = 28 \end{aligned}$$

(10, 1)

$$\begin{aligned} 9) \quad & 10x + 8y = -26 \\ & 10x + 4y = -18 \end{aligned}$$

(-1, -2)

$$\begin{aligned} 10) \quad & -5x - 3y = -23 \\ & -3x + 12y = 0 \end{aligned}$$

(4, 1)

$$\begin{aligned} 11) \quad & 10x - 7y = 11 \\ & 5x - 3y = 9 \end{aligned}$$

(6, 7)

Write a response to the following question.

12) What must be true in both equations of your system if elimination is to be used as a method for solving (hint: what was the goal at the top of the page in your notes)?

1) Same number
2) Different signs