

## Solving Systems by Graphing

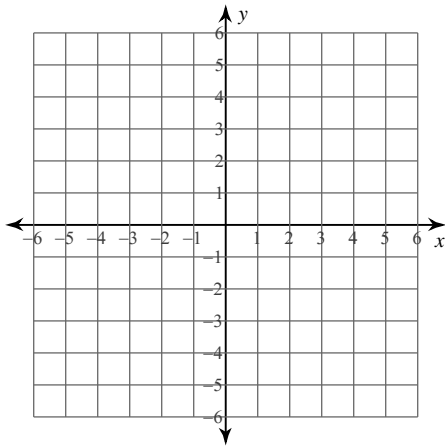
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## 1) Solving Systems of Equations

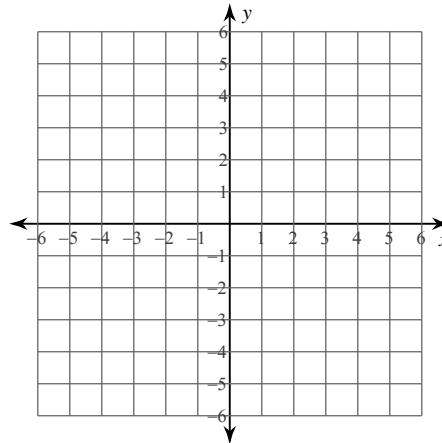
NOTES:

Sketch the graph of each line.

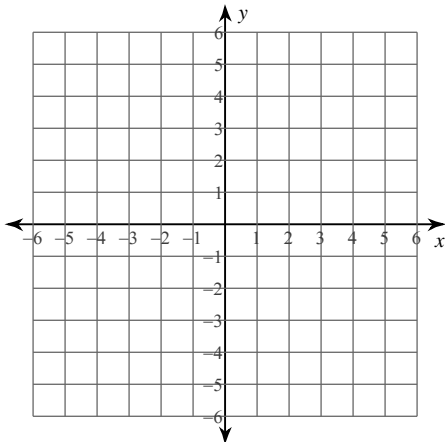
2)  $y = \frac{3}{4}x - 4$



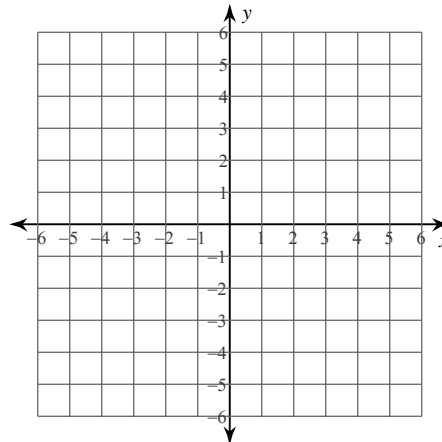
3)  $y = -2$



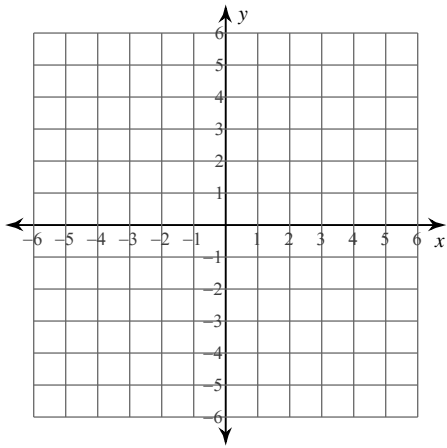
4)  $y = -2x + 2$



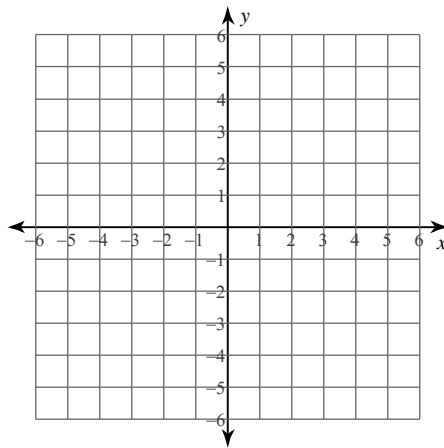
5)  $y = x$



6)  $x = 2$

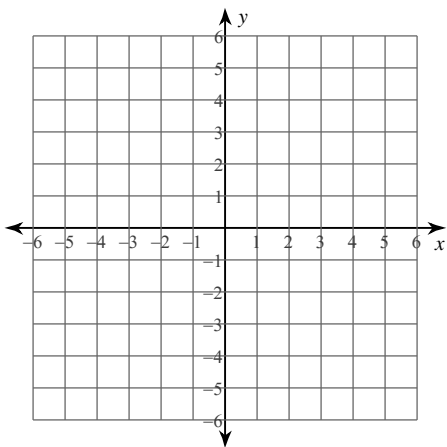


7)  $y = \frac{1}{5}x + 4$

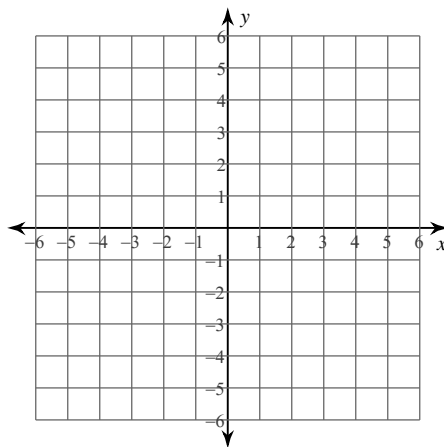


**REVIEW: Sketch the graph of each line.**

8)  $x + y = -4$



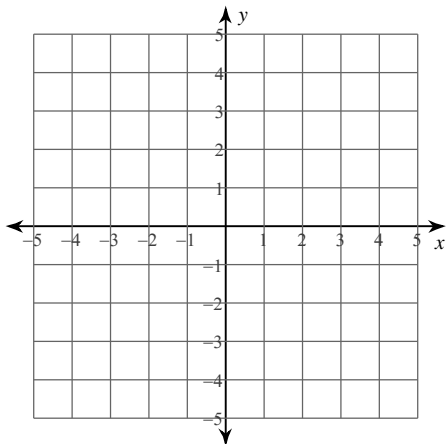
9)  $x + 5y = -10$



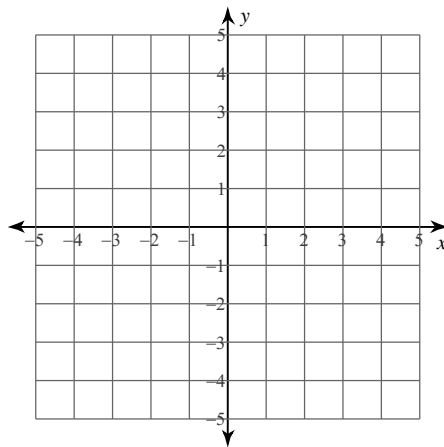
**Solve each system by graphing.**

10)  $y = -\frac{3}{4}x + 1$

$y = \frac{1}{2}x - 4$

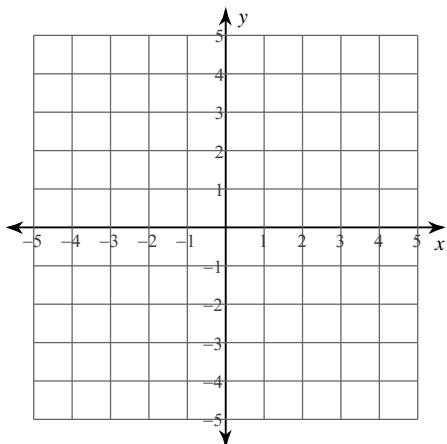


11)  $y = -2x - 1$   
 $y = 2x + 3$



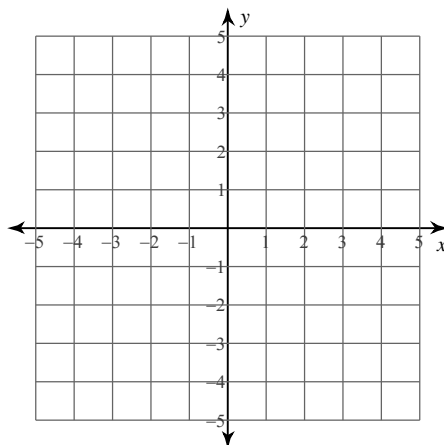
$$12) y = \frac{3}{2}x + 1$$

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



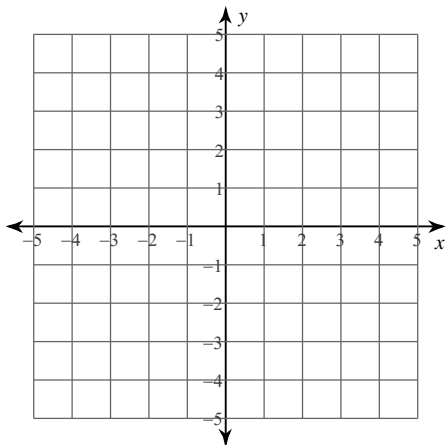
$$13) y = -7x + 3$$

$$y = -4$$



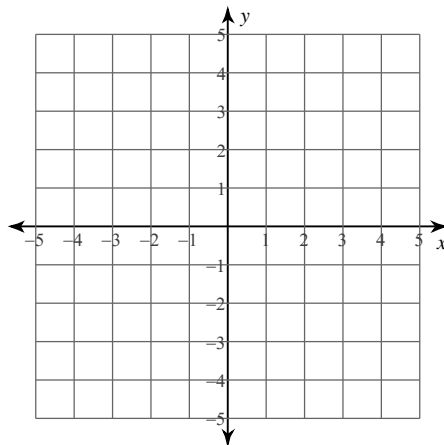
$$14) 2x + y = 2$$

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



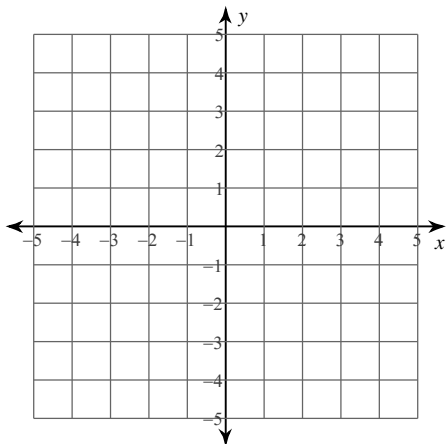
$$15) 5x - y = -2$$

$$x - y = 2$$



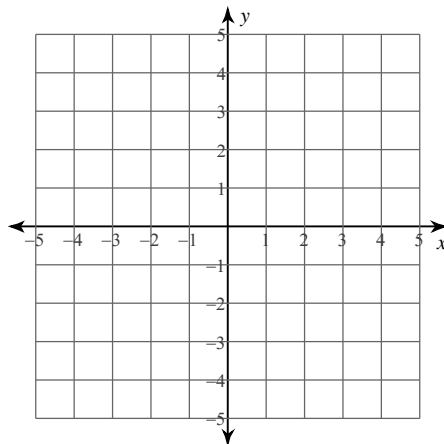
$$16) x + 2y = 2$$

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

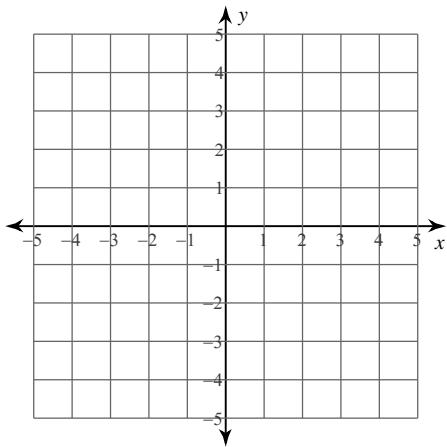


$$17) 2x + 3y = 3$$

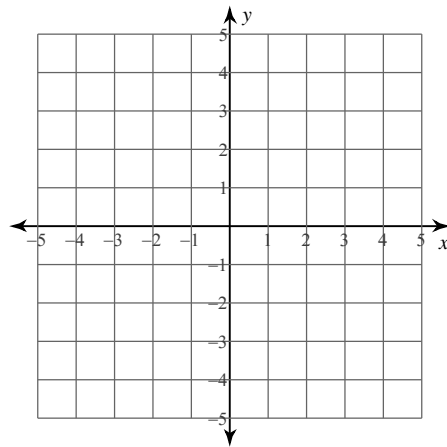
$$x - y = 4$$



18)  $x + 3y = 12$   
 $7x - 3y = 12$

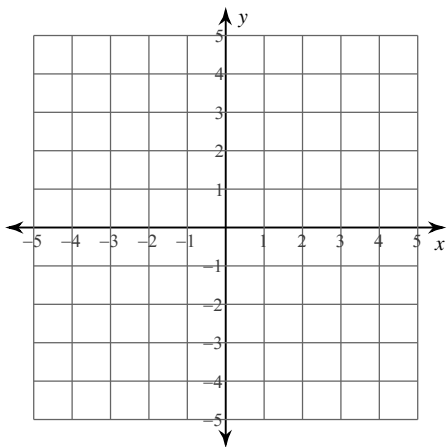


19)  $x - 3y = -12$   
 $5x + 3y = -6$

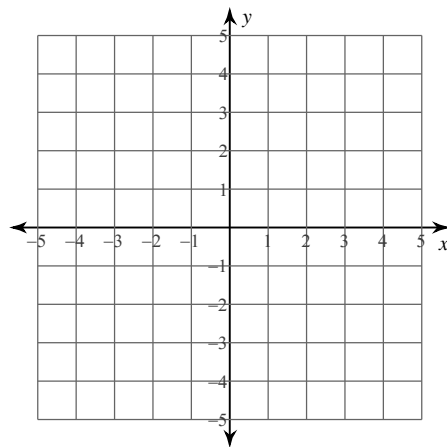


**CHALLENGE: Solve each system by graphing.**

20)  $-y - 2x + 4 = 0$   
 $6x = 4 + y$



21)  $x = 9 - 3y$   
 $3y = -12 - 8x$



**CHALLENGE: State if the point given is a solution to the system of equations.**

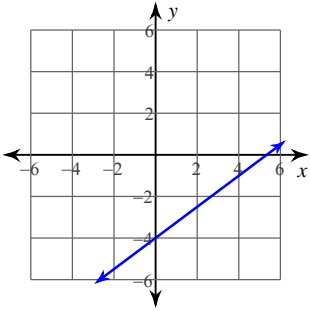
22)  $x^2 + y^2 - 16x - 3y + 64 = 0$   
 $x^2 + y^2 - 16x + 3y + 64 = 0$   
 Point:  $(0, 10)$

23)  $8x^2 + 8y^2 + 80x + 37y + 62 = 0$   
 $8x^2 + 18y^2 + 80x + 77y - 58 = 0$   
 Point:  $(-8, -6)$

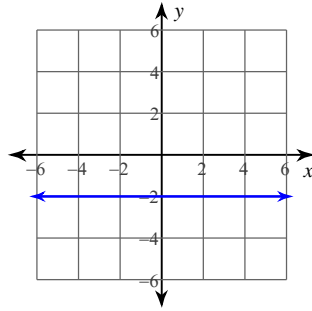
# Answers to Solving Systems by Graphing (ID: 1)

1) The dot next to the choice indicates that it is the answer.

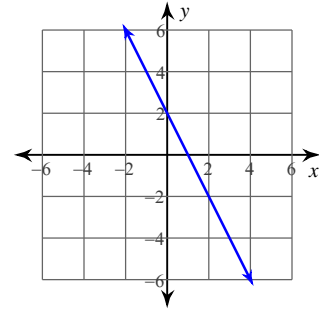
2)



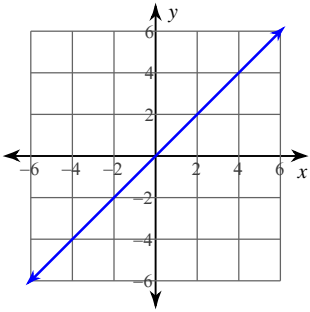
3)



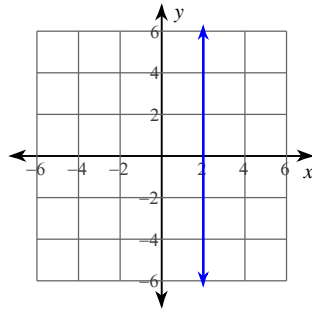
4)



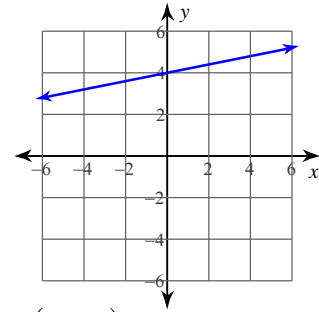
5)



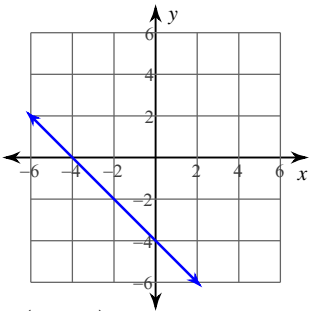
6)



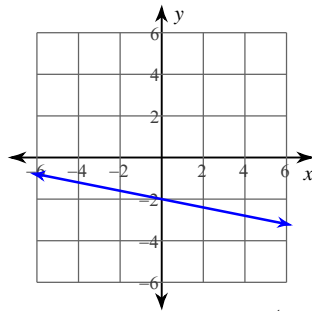
7)



8)



9)



10) (4, -2)

11) (-1, 1)

12) (2, 4)

13) (1, -4)

14) (3, -4)

15) (-1, -3)

16) (-2, 2)

17) (3, -1)

18) (3, 3)

19) (-3, 3)

20) (1, 2)

21) (-3, 4)

22) No

23) Yes

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