

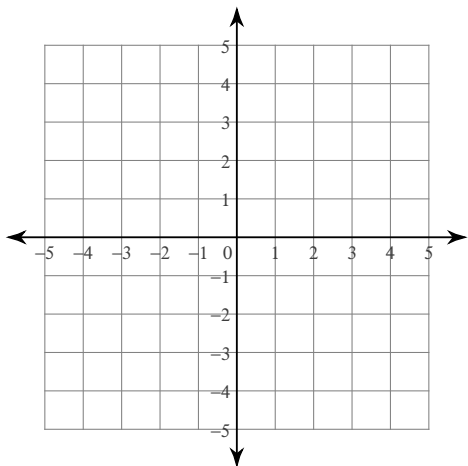
Solving Systems of Equations by Graphing Homework Date _____ Period _____

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Solve each system by graphing.

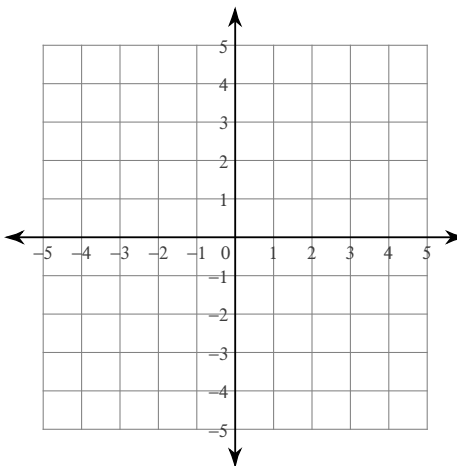
1) $y = \frac{2}{3}x - 3$

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



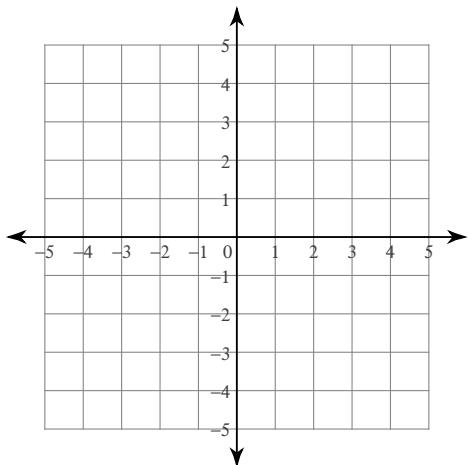
2) $y = -\frac{3}{2}x - 4$

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



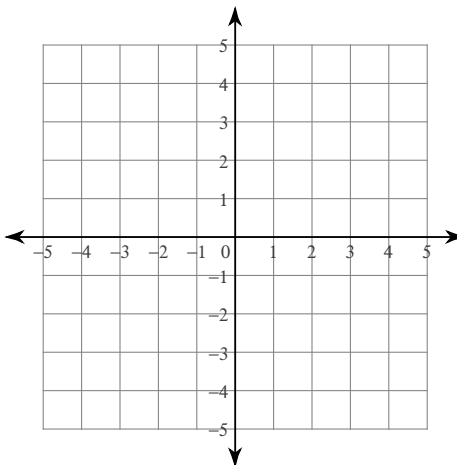
3) $x - 2y = 6$

$7x - 2y = -6$

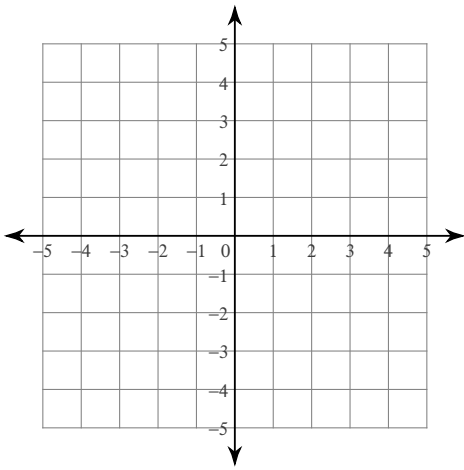


4) $x - 2y = 4$

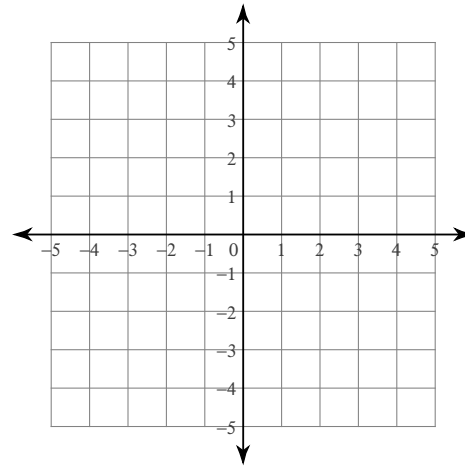
$x + y = 1$



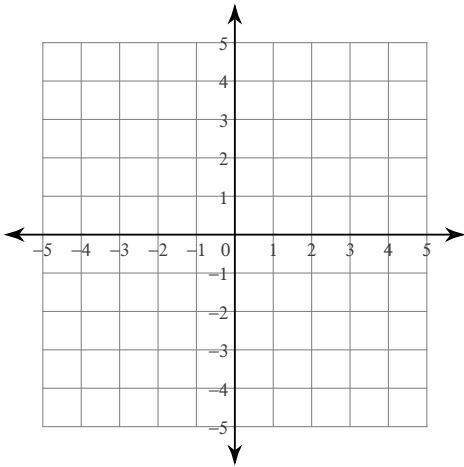
$$5) \begin{aligned} 0 &= -4y - x + 16 \\ -3 - 3y + 3x &= 0 \end{aligned}$$



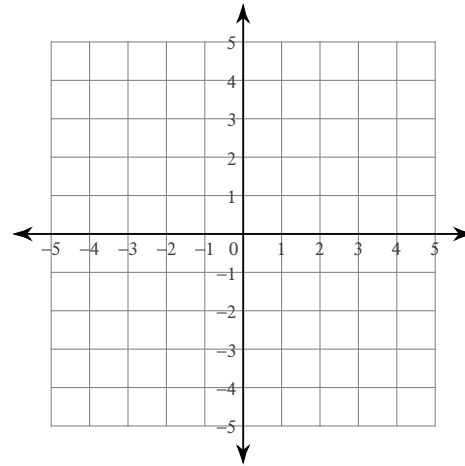
$$6) \begin{aligned} -1 &= -y + 4x \\ 1 &= x - \frac{1}{4}y \end{aligned}$$



$$7) \begin{aligned} -1 + \frac{1}{4}y - \frac{3}{8}x &= 0 \\ 2y &= -8 - 5x \end{aligned}$$



$$8) \begin{aligned} -4y &= -8 - 2x \\ 2y - 4 - x &= 0 \end{aligned}$$



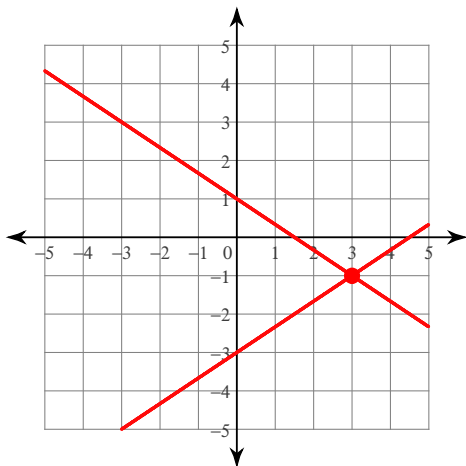
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Solve each system by graphing.

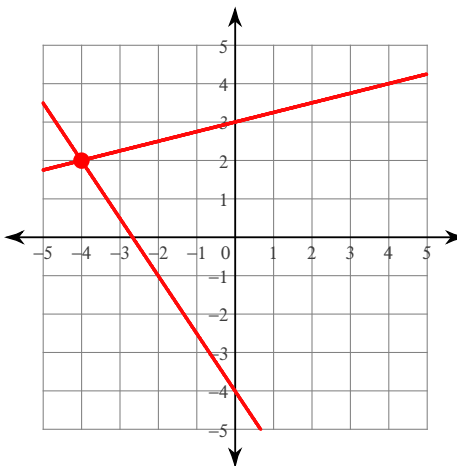
1) $y = \frac{2}{3}x - 3$

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

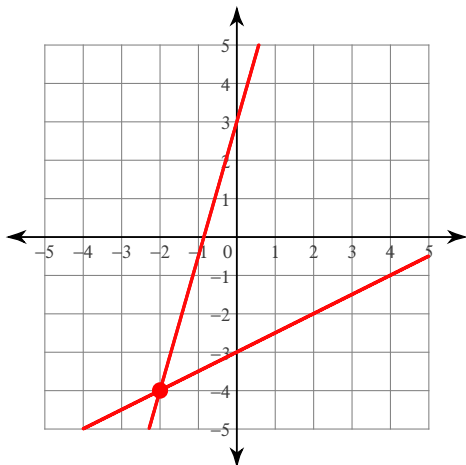
 $(3, -1)$

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

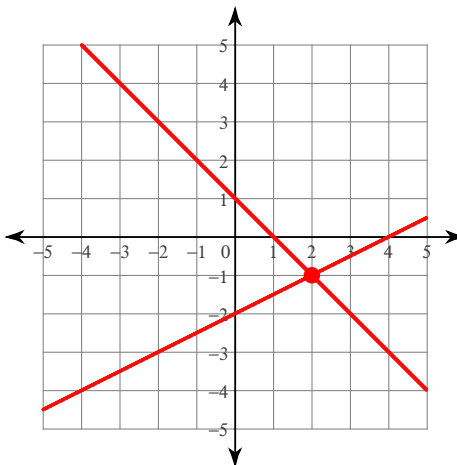
$y = \frac{1}{4}x + 3$

 $(-4, 2)$

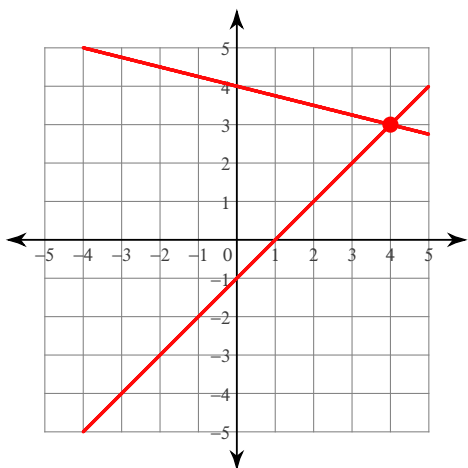
3) $x - 2y = 6$
 $7x - 2y = -6$

 $(-2, -4)$

4) $x - 2y = 4$
 $x + y = 1$

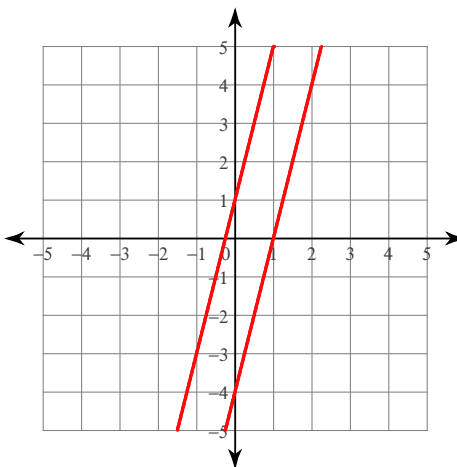
 $(2, -1)$

$$5) \begin{aligned} 0 &= -4y - x + 16 \\ -3 - 3y + 3x &= 0 \end{aligned}$$



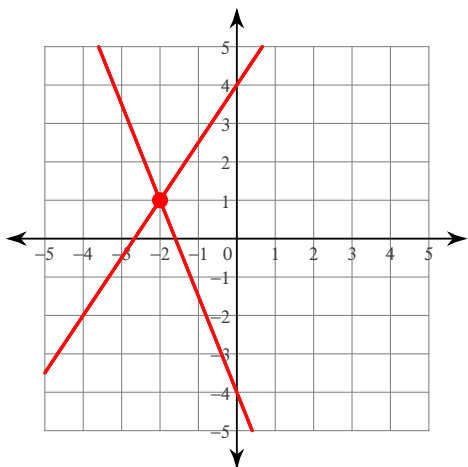
$(4, 3)$

$$6) \begin{aligned} -1 &= -y + 4x \\ 1 &= x - \frac{1}{4}y \end{aligned}$$



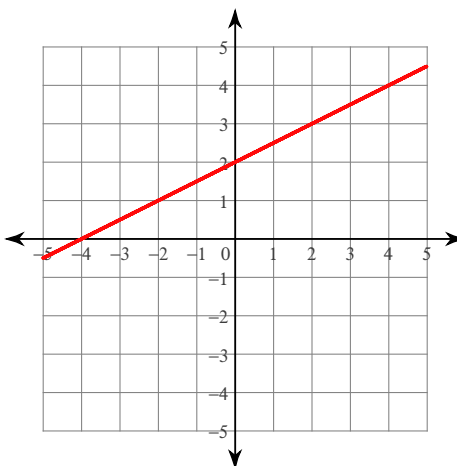
No solution

$$7) \begin{aligned} -1 + \frac{1}{4}y - \frac{3}{8}x &= 0 \\ 2y &= -8 - 5x \end{aligned}$$



$(-2, 1)$

$$8) \begin{aligned} -4y &= -8 - 2x \\ 2y - 4 - x &= 0 \end{aligned}$$



Infinite number of solutions