

graphing  
#6

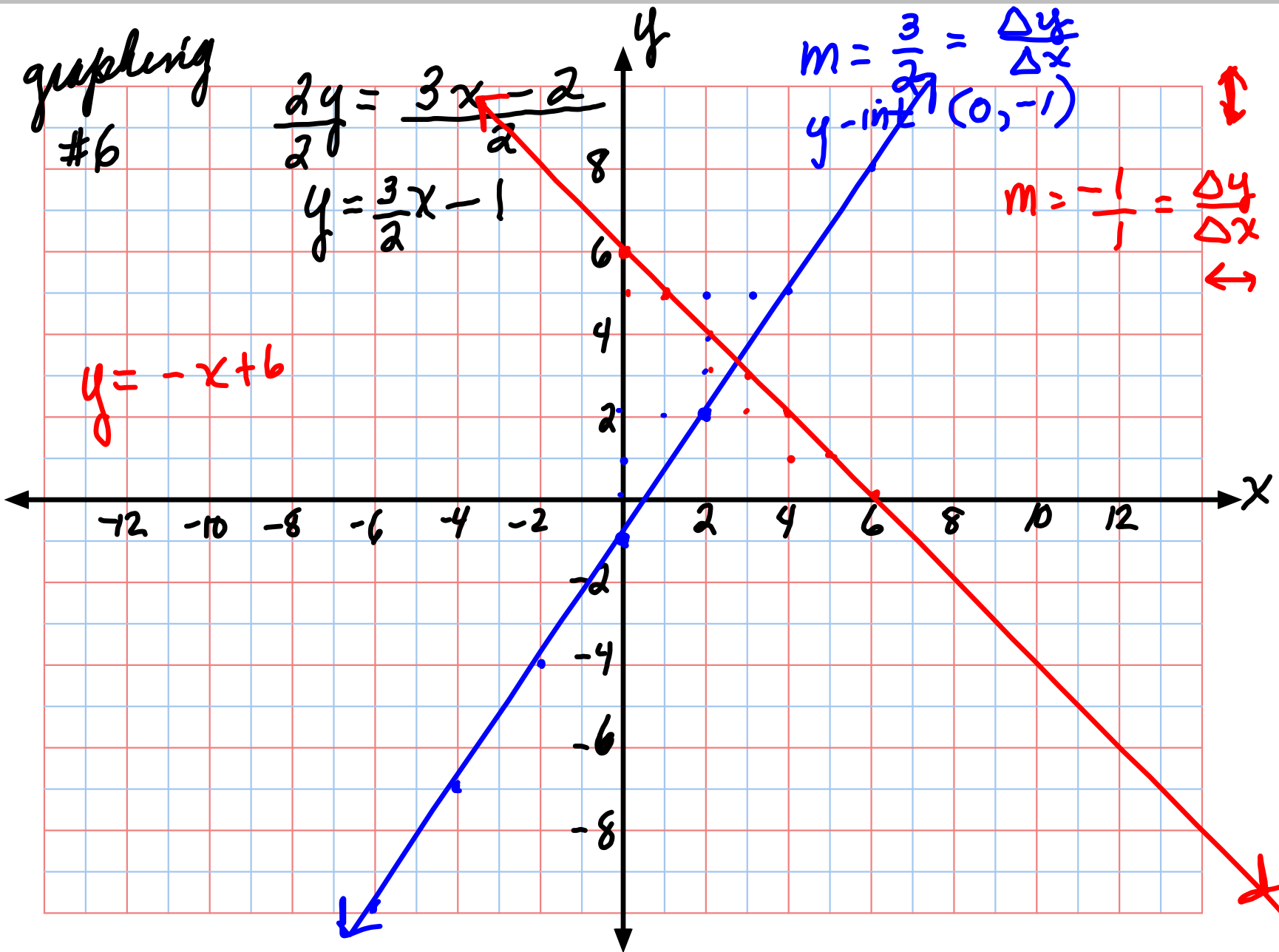
$$\frac{2y}{2} = \frac{3x - 2}{2}$$
$$y = \frac{3}{2}x - 1$$

$$m = \frac{3}{2} = \frac{\Delta y}{\Delta x}$$

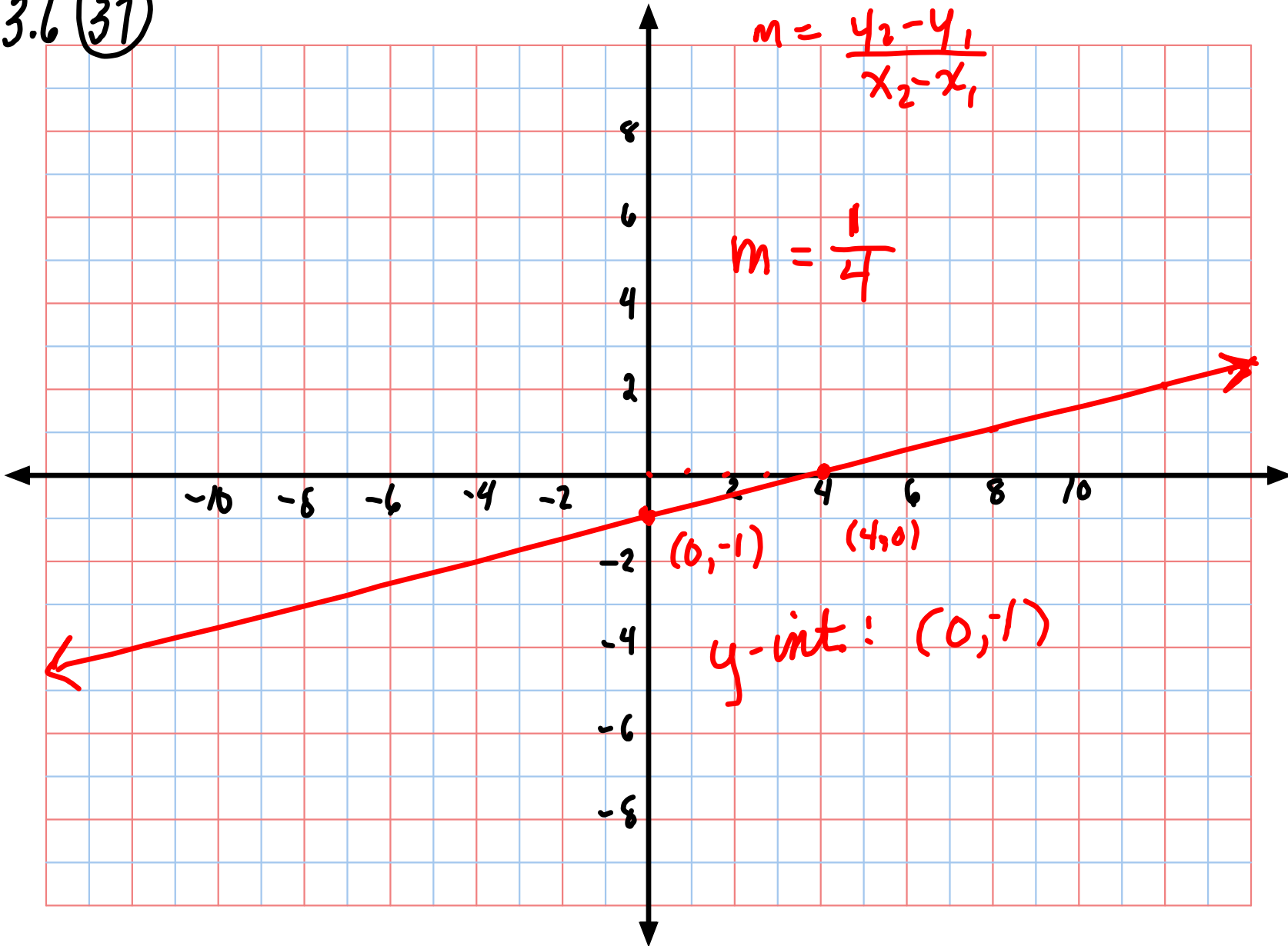
y-int  $(0, -1)$

$$m = -\frac{1}{1} = \frac{\Delta y}{\Delta x}$$

$$y = -x + 6$$



3.6 (37)

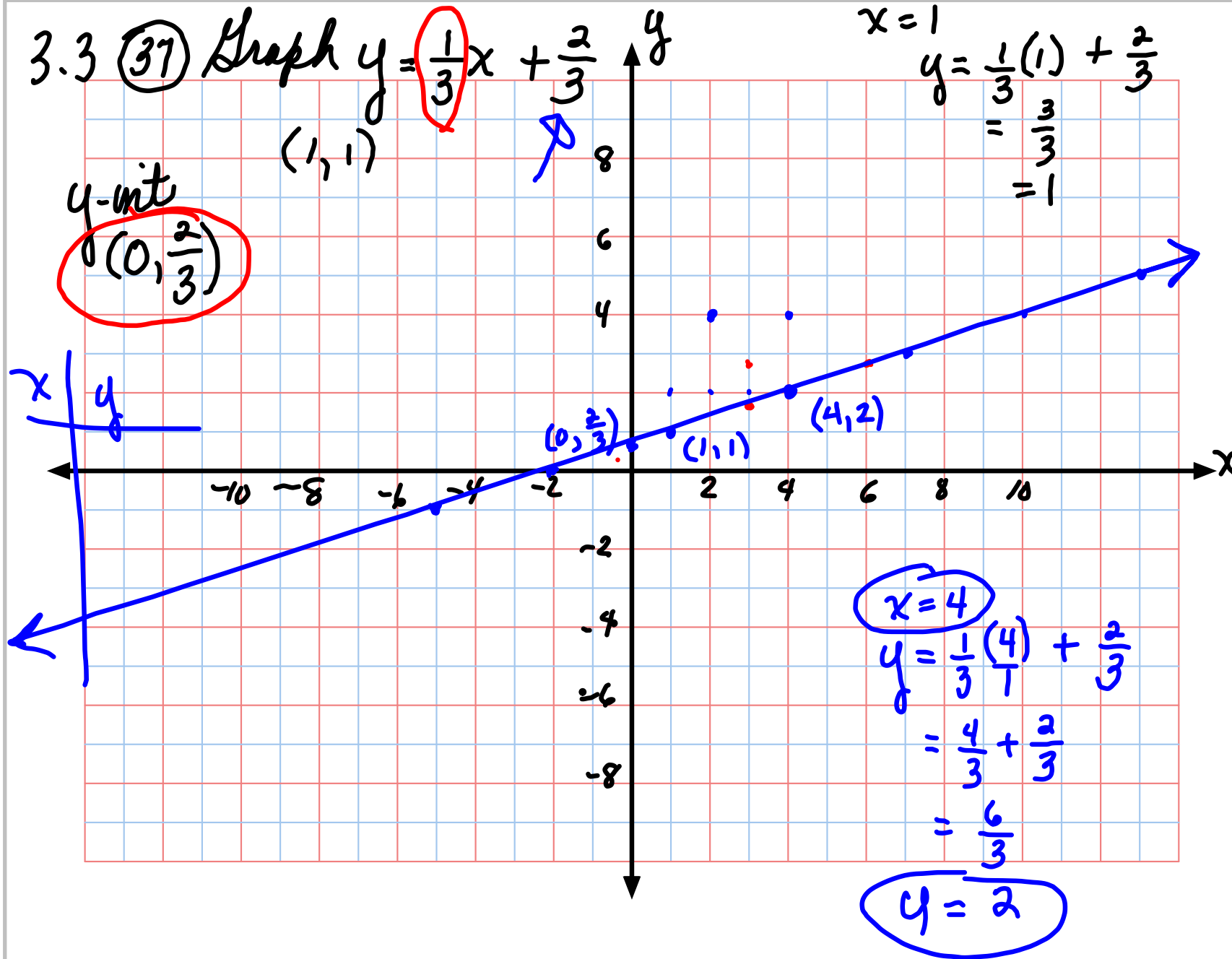


3.3 (37) Graph  $y = \frac{1}{3}x + \frac{2}{3}$

$(1, 1)$

y-int  
 $(0, \frac{2}{3})$

$$\begin{aligned}x &= 1 \\ y &= \frac{1}{3}(1) + \frac{2}{3} \\ &= \frac{1}{3} + \frac{2}{3} \\ &= 1\end{aligned}$$



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

let  
 $x = 3$

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

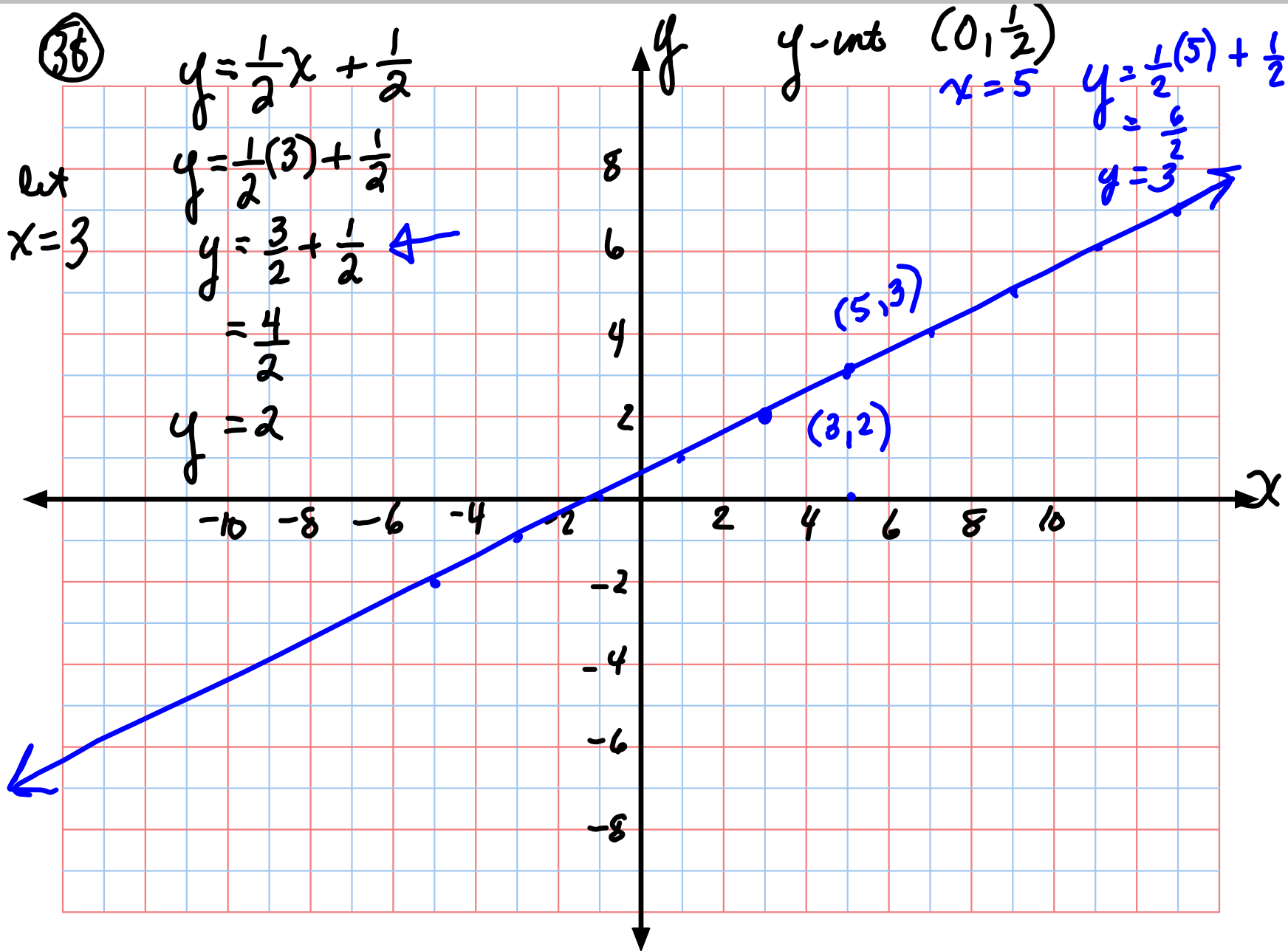
$$y = \frac{3}{2} + \frac{1}{2} \leftarrow$$

$$= \frac{4}{2}$$

$$y = 2$$

y-int  $(0, \frac{1}{2})$   
 $x = 5$

$$y = \frac{1}{2}(5) + \frac{1}{2}$$
$$= \frac{6}{2}$$
$$y = 3$$



4.1

# Solving Systems of Linear Equations

(ex) 
$$\left. \begin{aligned} x - y &= -4 \\ 2x + 10y &= 4 \end{aligned} \right\} \text{systems of equations}$$

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$$y = -x + 6$$

$$y = x - 2$$

Check

$$2 = -4 + 6$$

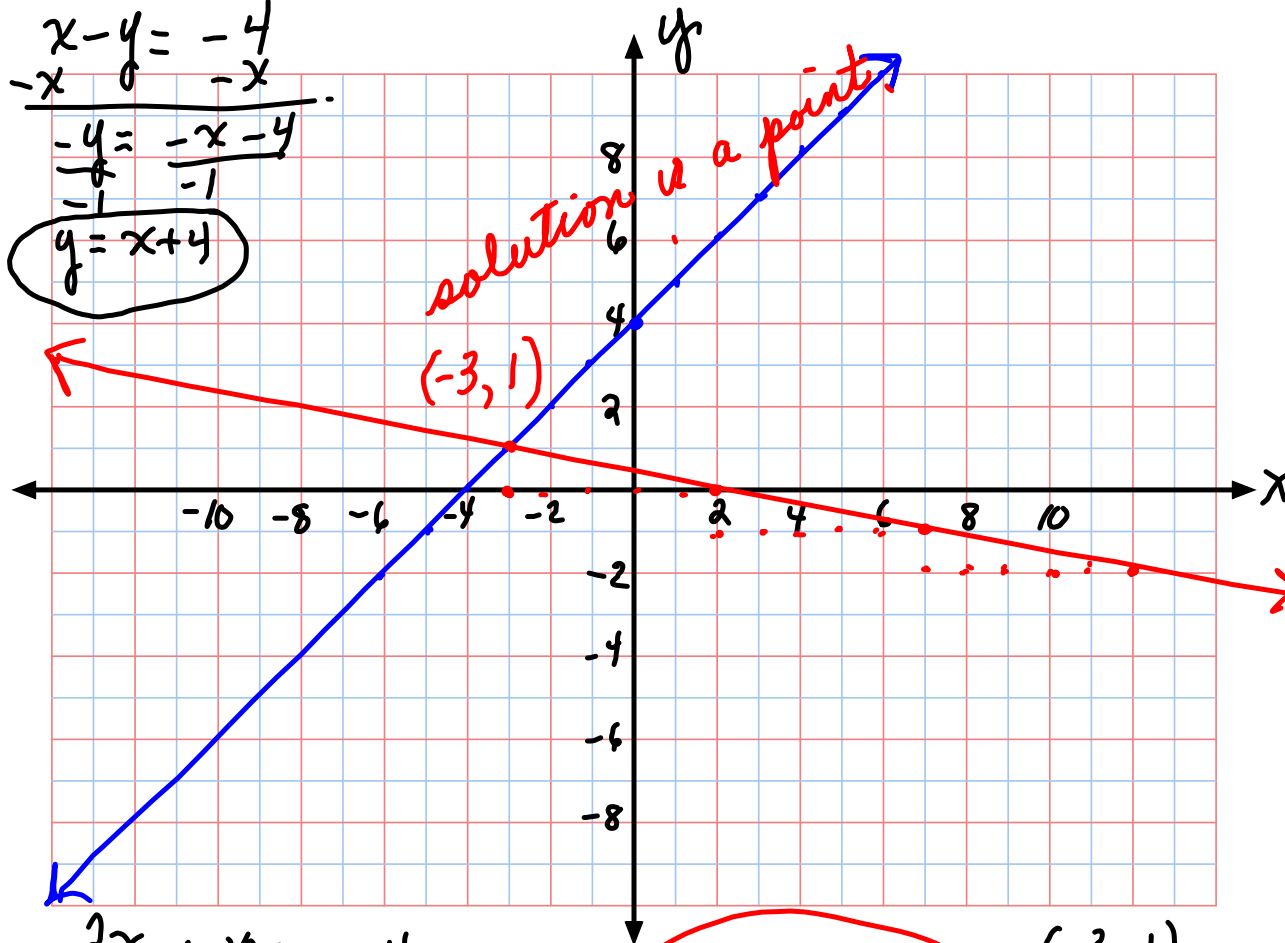
$$2 = 2 \checkmark$$

$$2 = 4 - 2$$

$$2 = 2 \checkmark$$

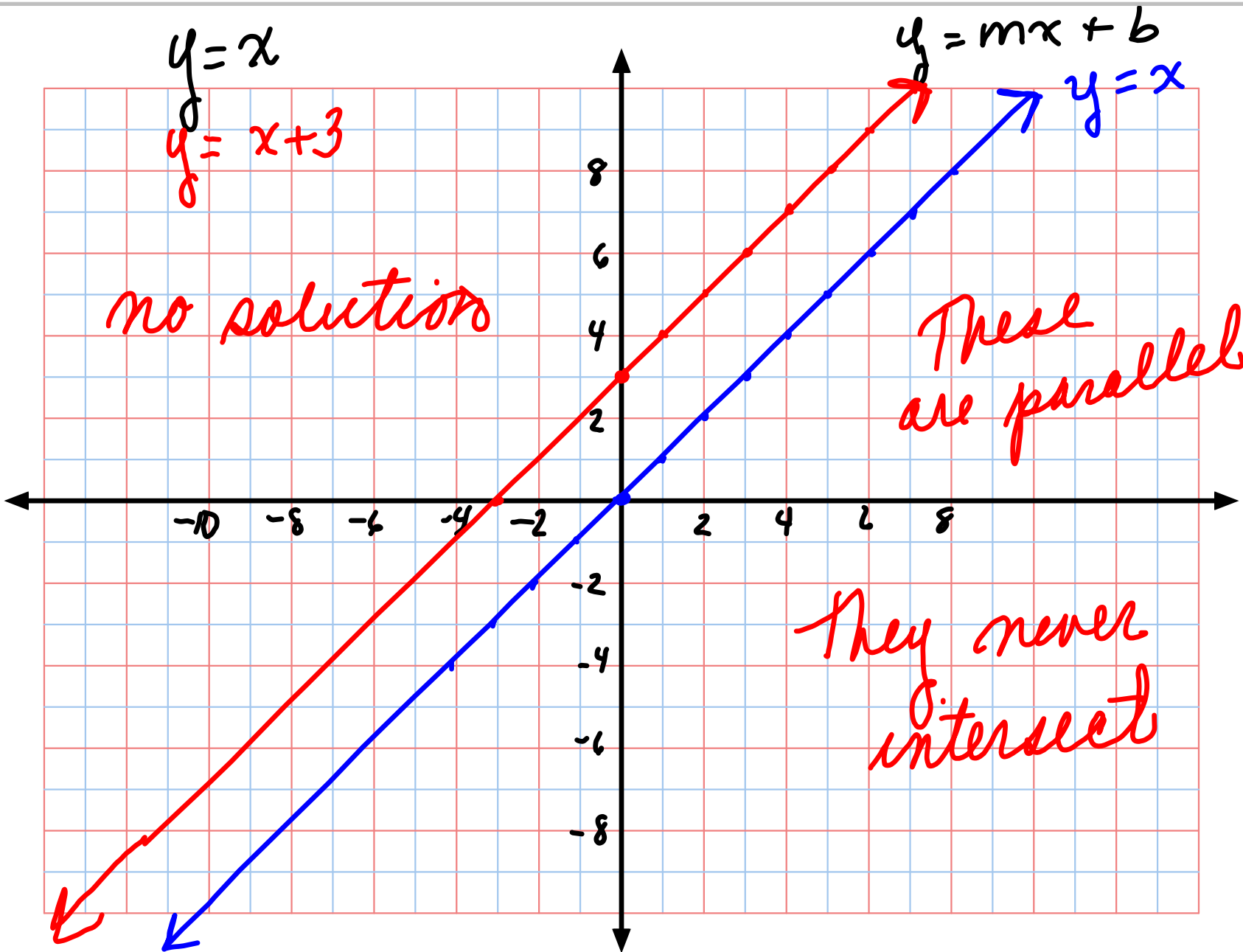
$(4, 2)$   
satisfies  
the system

$$\begin{array}{r} x - y = -4 \\ -x \quad \quad -x \\ \hline -y = -x - 4 \\ \frac{-y}{-1} = \frac{-x - 4}{-1} \\ y = x + 4 \end{array}$$



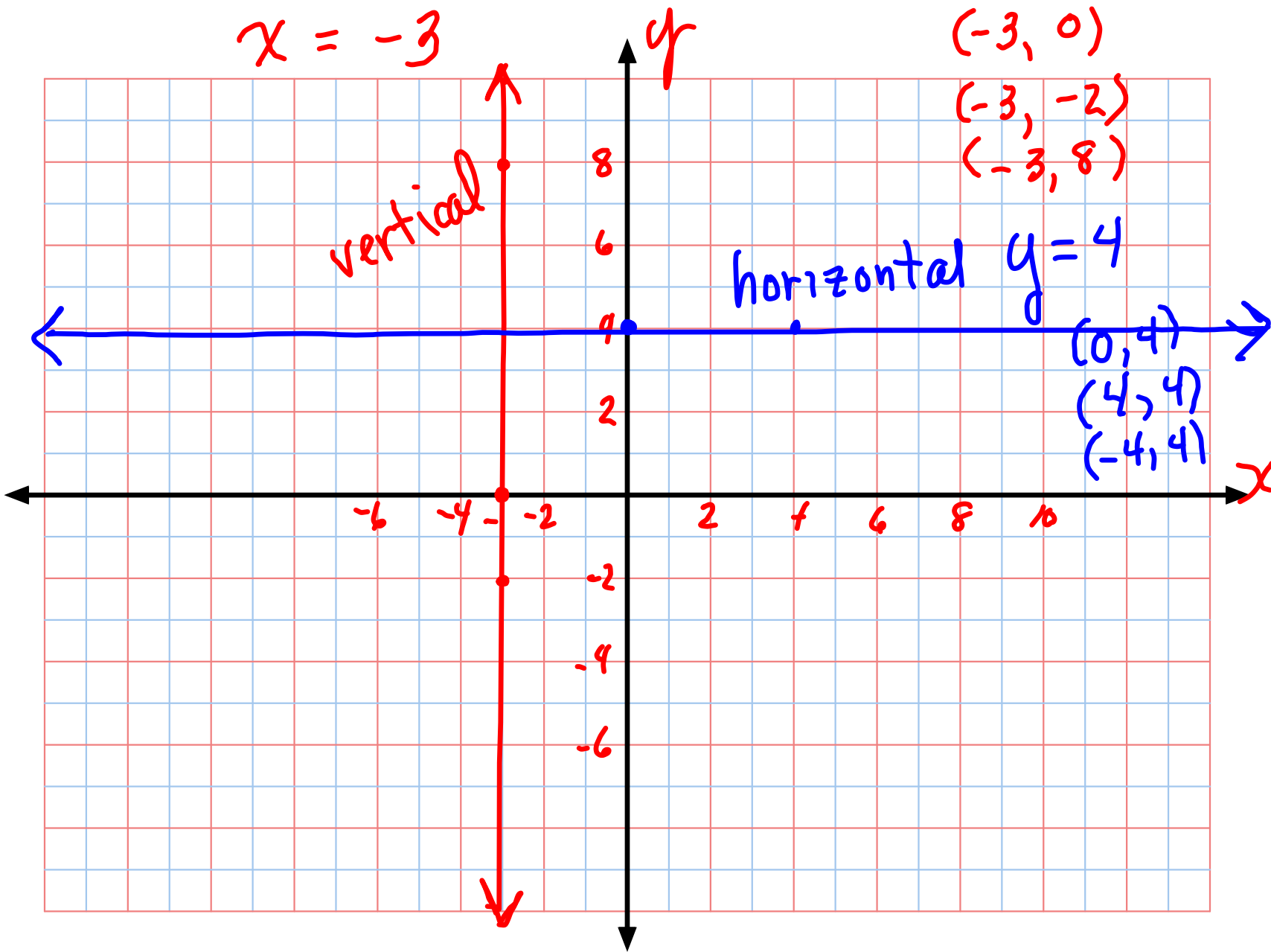
$$\begin{array}{r} 2x + 10y = 4 \\ -2x \quad \quad -2x \\ \hline 10y = -2x + 4 \\ \frac{10y}{10} = \frac{-2x + 4}{10} \\ y = -\frac{1}{5}x + \frac{2}{5} \end{array}$$

$$\begin{array}{l} x = -3 \\ y = -\frac{1}{5}(-3) + \frac{2}{5} \\ = \frac{3}{5} + \frac{2}{5} \\ = \frac{5}{5} \\ = 1 \end{array} \quad (-3, 1)$$









$$m = \frac{a}{1} = \frac{\Delta y}{\Delta x}$$