

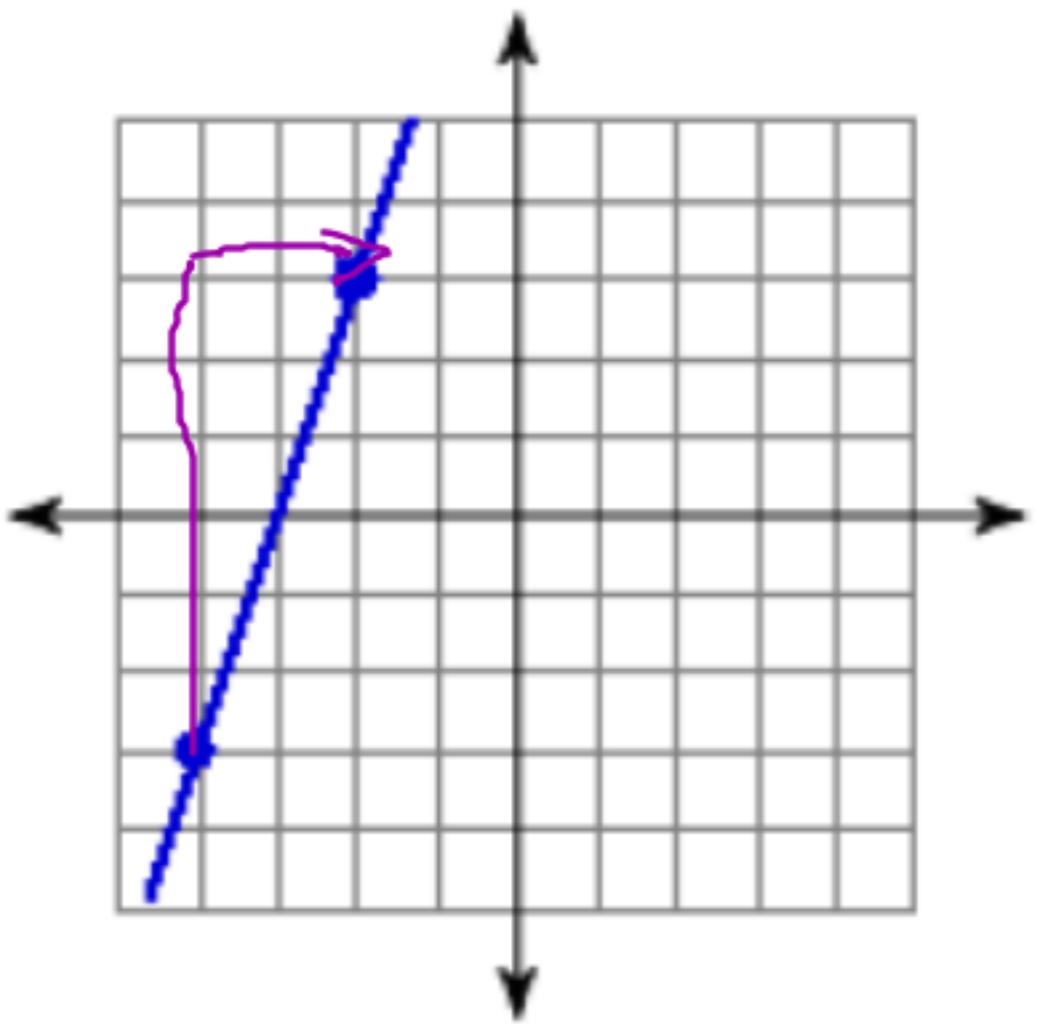
Mathematics 10D

1.0 – Slope, Graphing and Equations

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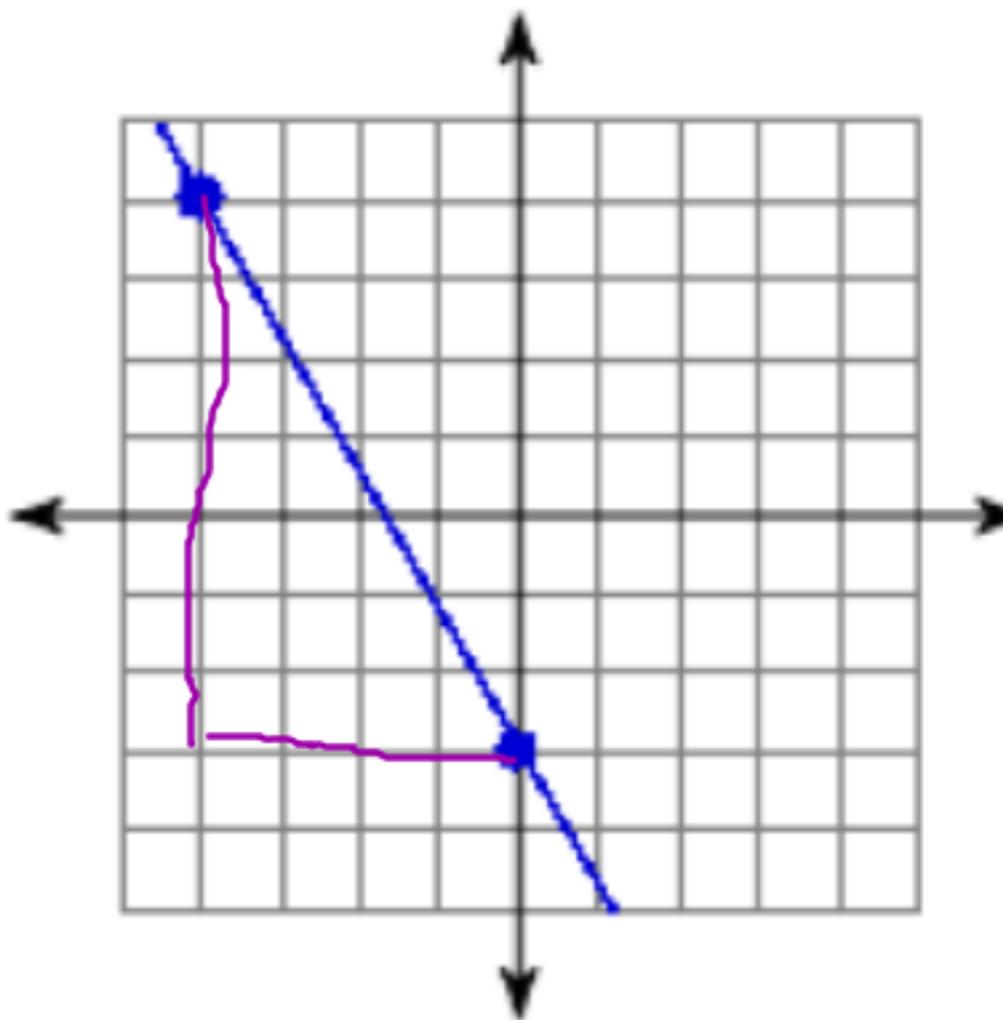
Find the slope of each line.

1)



$$m = \frac{\text{Rise}}{\text{Run}} = \frac{y^s}{x^s} = \frac{6}{2} = 3$$

2)



$$m = -\frac{7}{4}$$

Find the slope of the line through each pair of points.

3) $(-15, \underline{18}), (-8, \underline{4})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{4 - 18}{-8 + 15}$$

$$= \frac{-14}{7} = -2$$

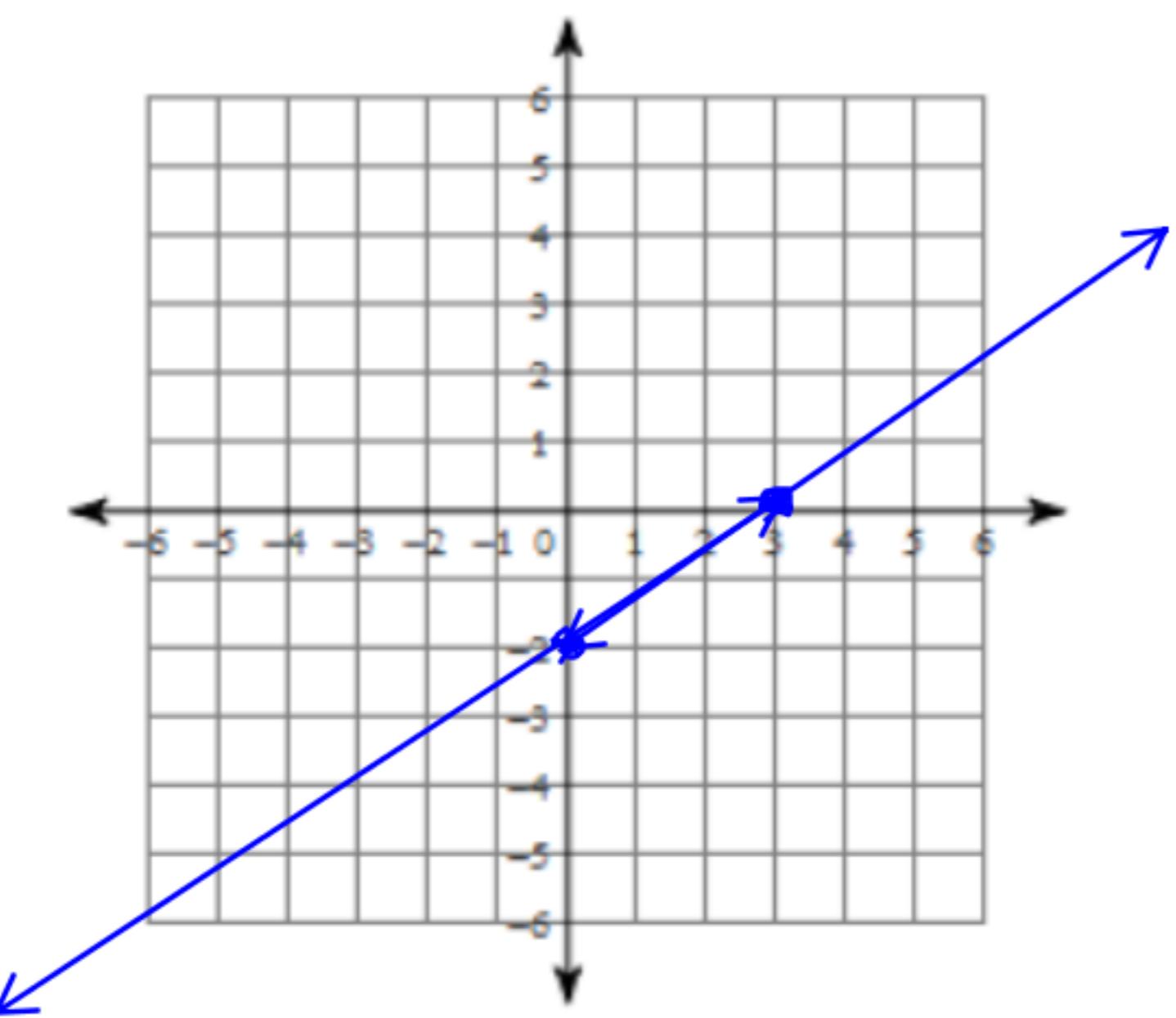
4) $(-2, -2), (1, -19)$

$$m = \frac{-19 + 2}{1 + 2}$$

$$= \frac{-17}{3}$$

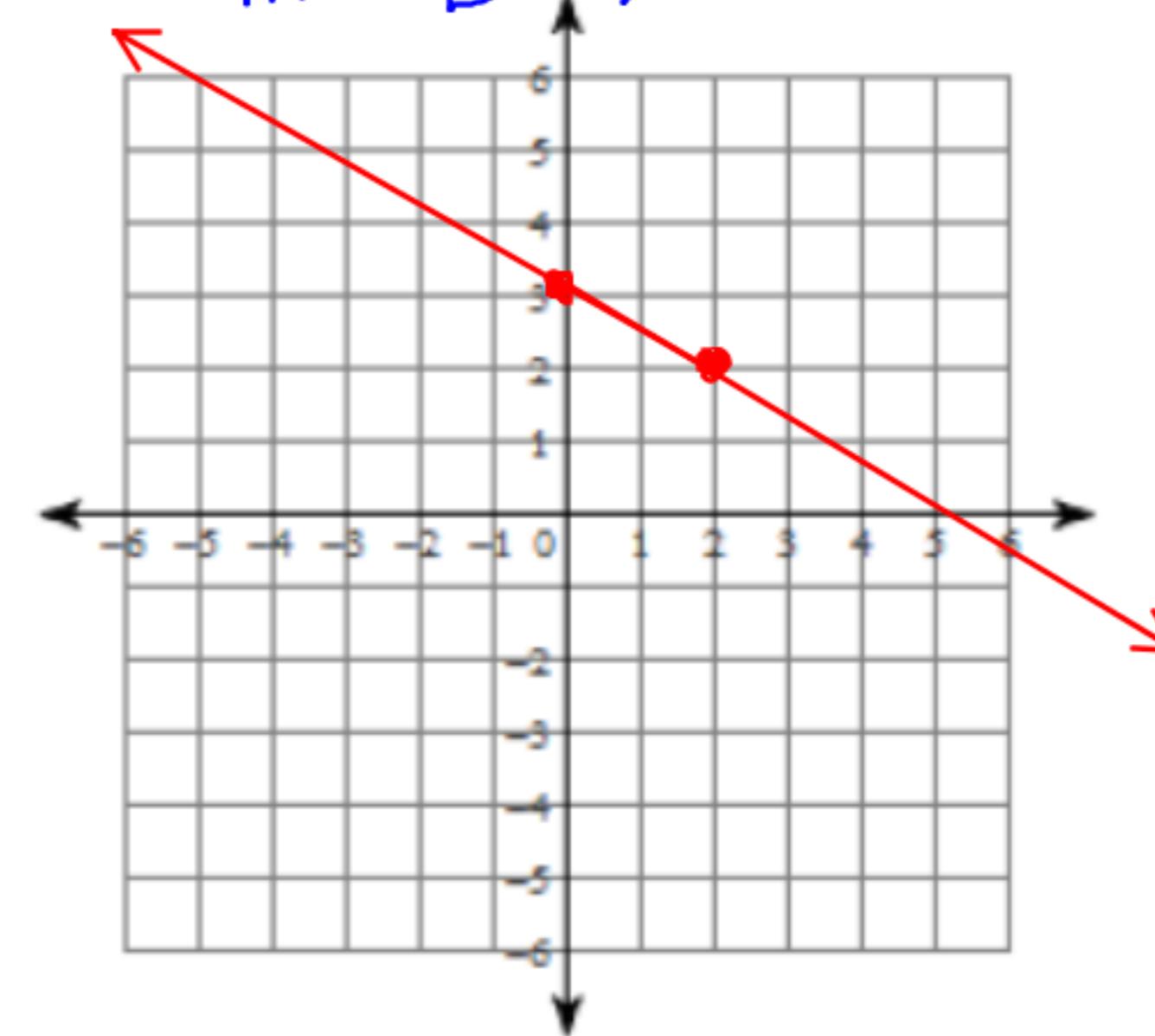
Sketch the graph of each line.

5) x-intercept = 3, y-intercept = -2

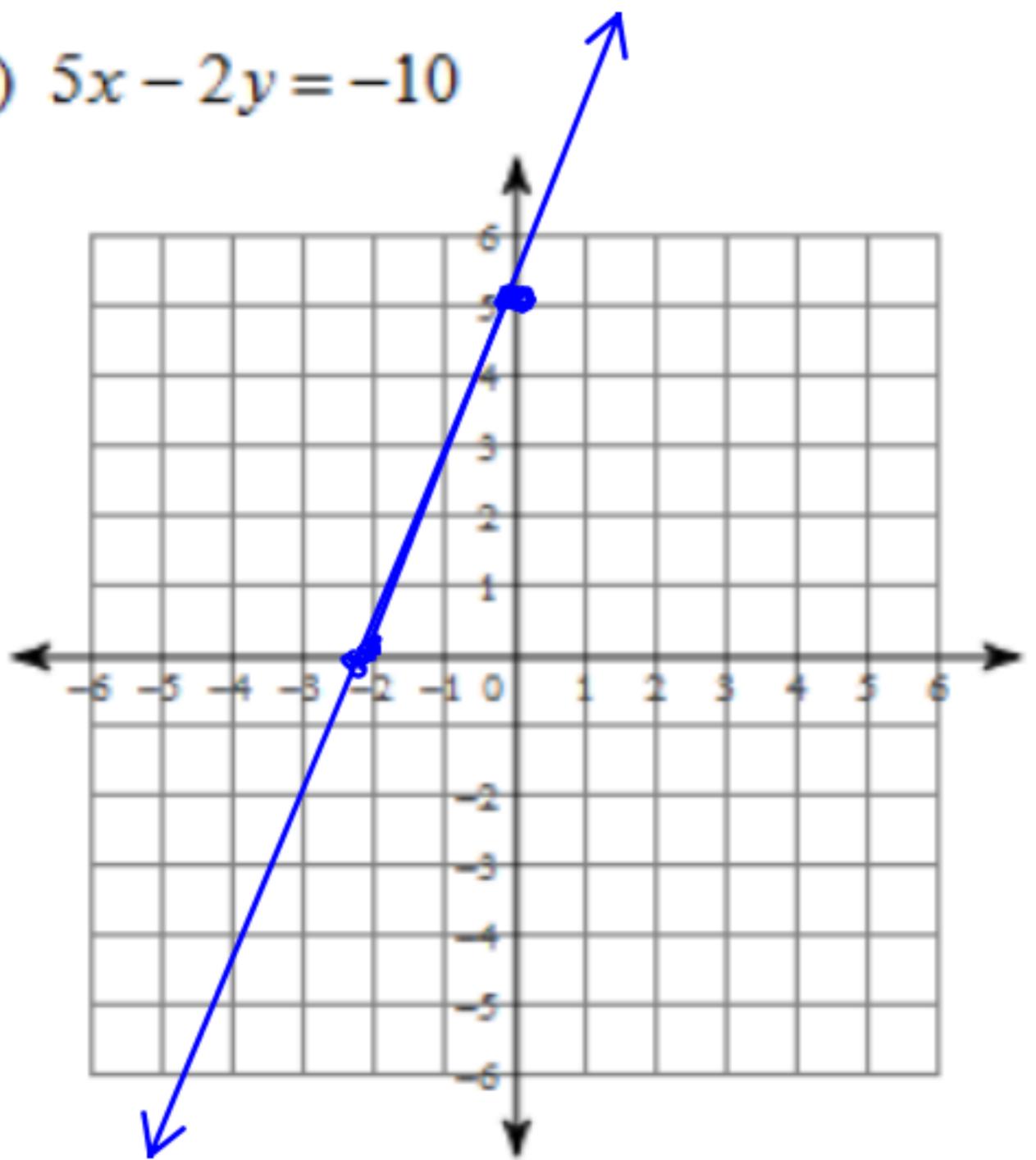


Slope intercept

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



$$7) \ 5x - 2y = -10$$

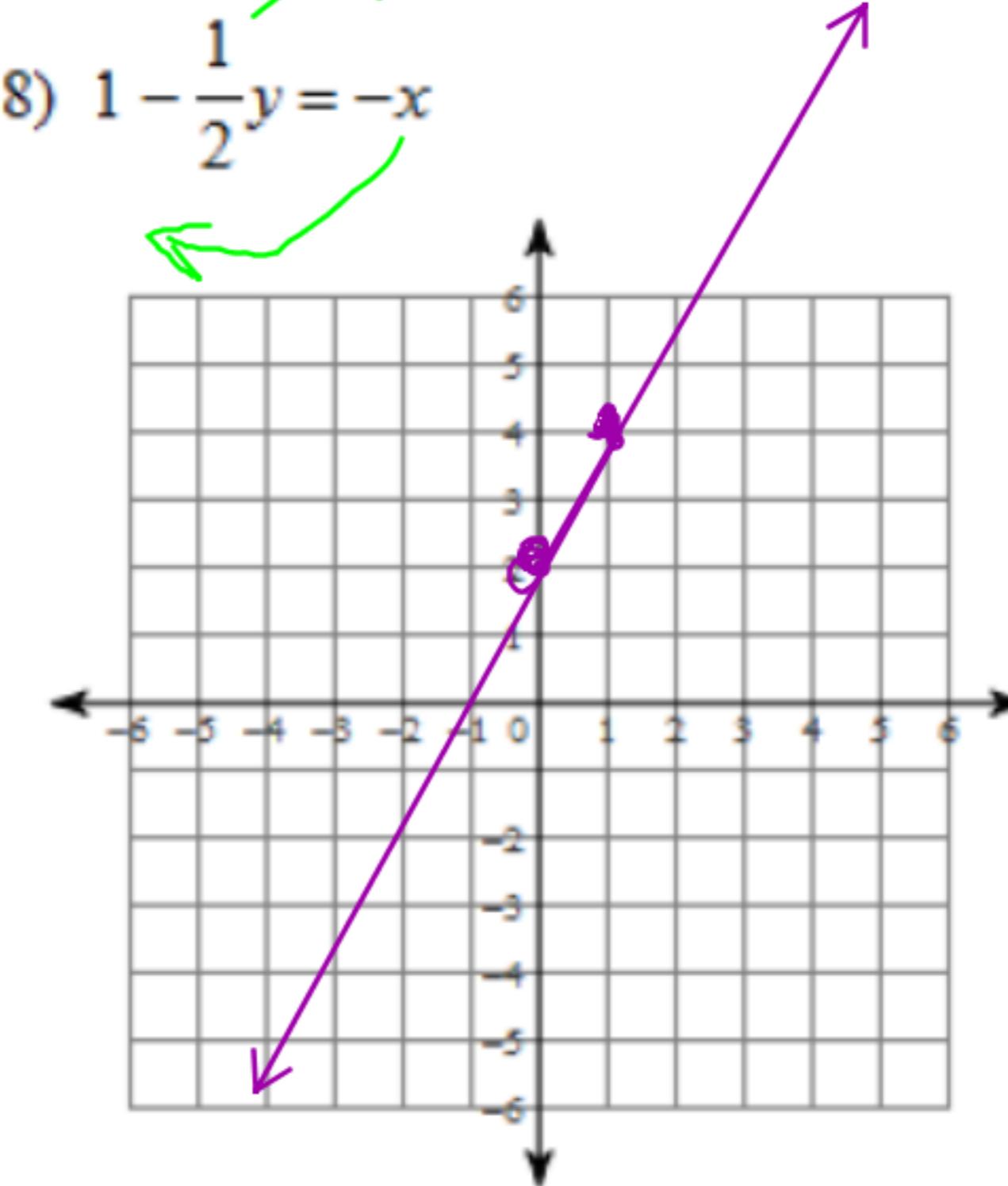


$$y\text{-int: } -2y = -10$$

$$y = 5$$

$$x\text{-int: } 5x = -10$$
$$x = -2$$

$$8) \ 1 - \frac{1}{2}y = -x$$



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

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

$$9) \frac{-3}{3} + 8x = \frac{-3}{107}$$

$$\frac{8x}{8} = \frac{104}{8}$$

$$x = 13$$

$$10) \frac{k+2}{4} = 1$$

$$k+2 = 4$$

$$k = 2$$

$$11) \quad 8x + 4(7x - 3) = -84$$

$$8x + 28x - 12 = -84$$

$$36x = -72$$

$$x = -2$$

$$12) \quad -2(1 - 3x) = 6x - 2(1 + x)$$

$$-2 + \cancel{6x} = \cancel{6x} - 2 - 2x$$

$$2x = 0$$

$$x = 0$$