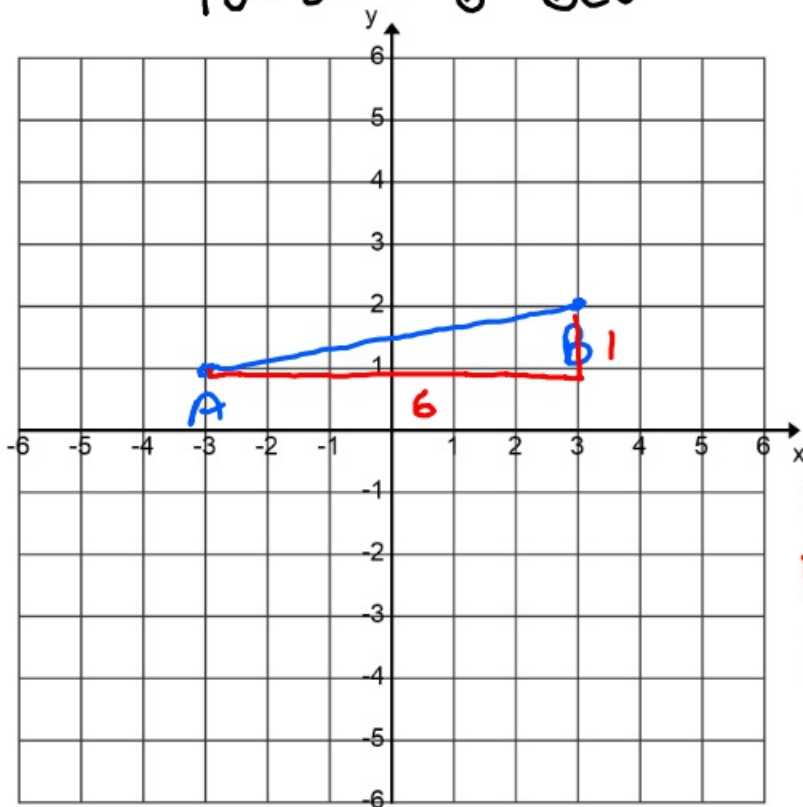


10-8-19 6<sup>th</sup> Geo



$$\text{Slope } \overline{AB} \\ \frac{1}{6}$$

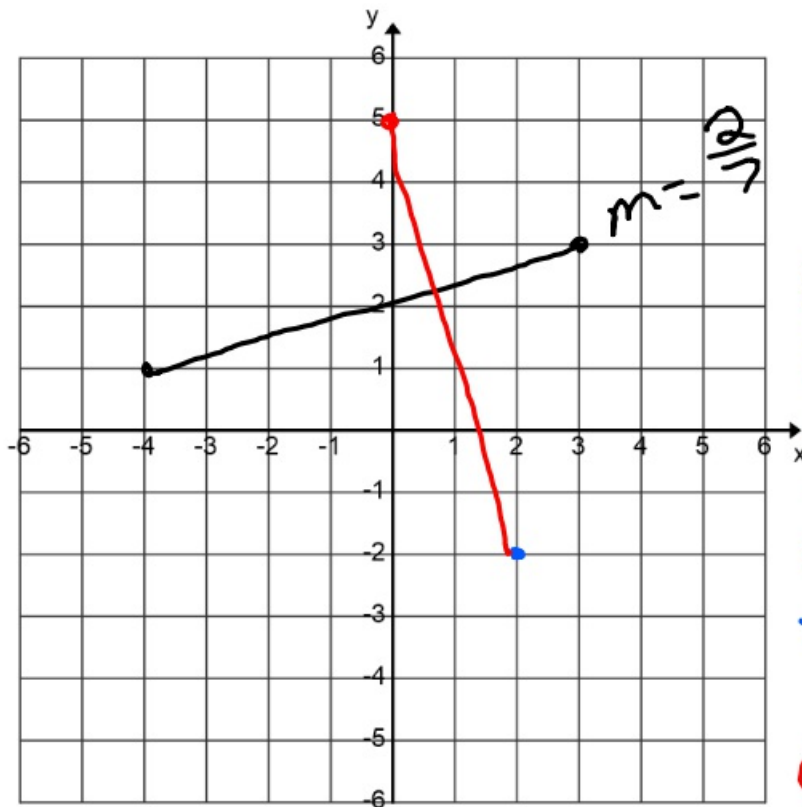
$$\text{Length } \overline{AB} \\ \text{leg}^2 + \text{leg}^2 = \text{hyp}^2 \\ 6^2 + 1^2 = \text{hyp}^2 \\ \sqrt{37} = \sqrt{\text{hyp}^2} \\ \text{hyp} \approx 6.1$$

③ Give the slope between  
(2, 4) and (6, 100).

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{4-100}{2-6} = \frac{-96}{-4} = 24$$

④ Slope between (-3, -8) (-2, 10)

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{10 - (-8)}{-2 - (-3)} = \frac{18}{1} = 18$$



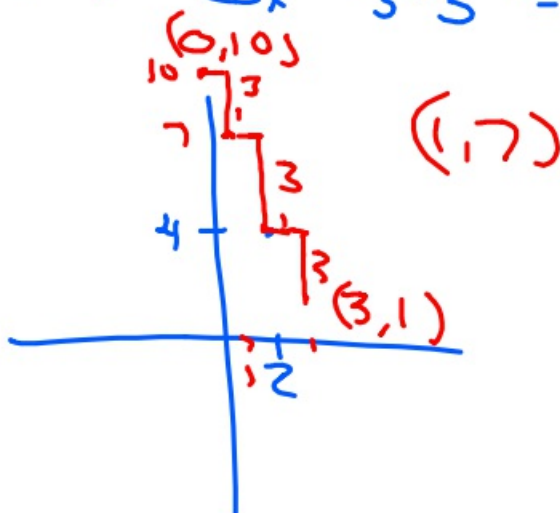
$$\therefore \perp m = -\frac{7}{2}$$

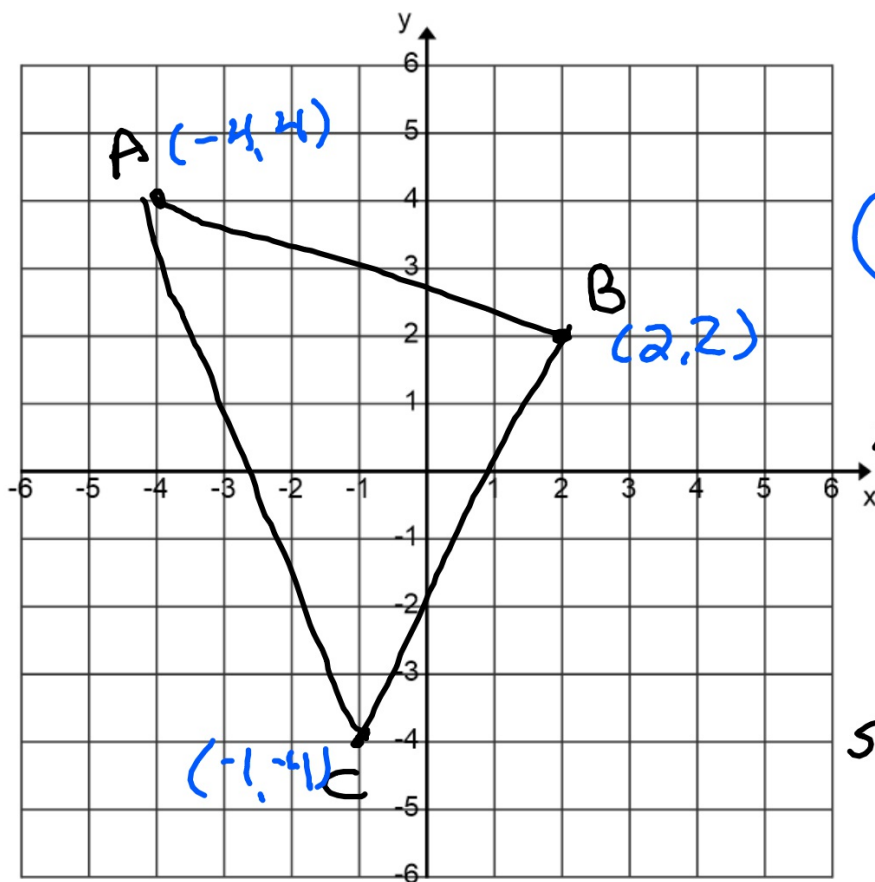
Give me a point that connected with the blue point will be  $\perp$  to the black line.

(0, 5)

⑥ Give an integral coordinate that with (2, 4) is parallel to the line that contains (3, 7) and (5, 1).

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{7-1}{3-5} = \frac{6}{-2} = -3$$



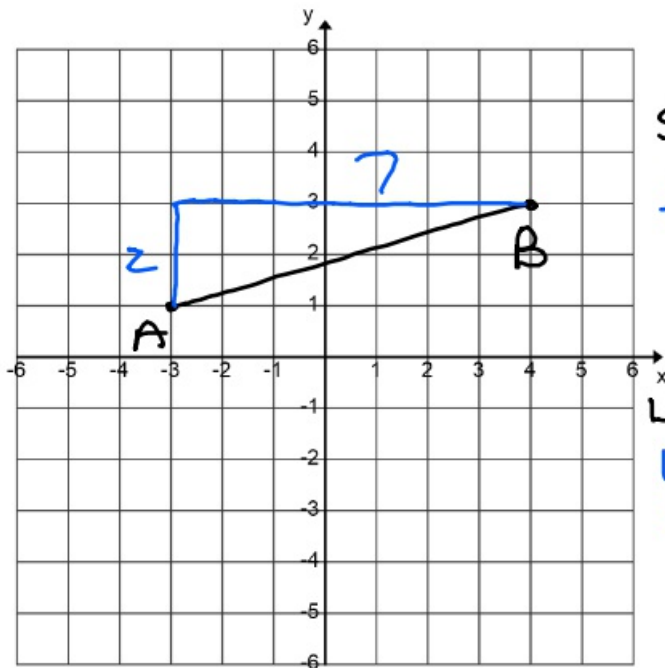


Midpoint of  $\overline{AB}$   
 $\left(\frac{-4+2}{2}, \frac{4+2}{2}\right)$   
 $(-1, 3)$

Length of  $\overline{BC}$   
 $3^2 + 6^2 = c^2$

slope  $\overline{AC}$

10-8-19 7<sup>th</sup> Geo



Slope of  $\overline{AB}$

$$\frac{\text{rise}}{\text{run}} = \frac{2}{7}$$

Length of  $\overline{AB}$

$$\text{leg}^2 + \text{leg}^2 = \text{hyp}^2$$

$$2^2 + 7^2 = \text{hyp}^2$$

$$4 + 49 = \text{hyp}^2$$

$$\sqrt{53} = \text{hyp}$$

$$\text{hyp} \approx 7.3$$

③ Give slope between

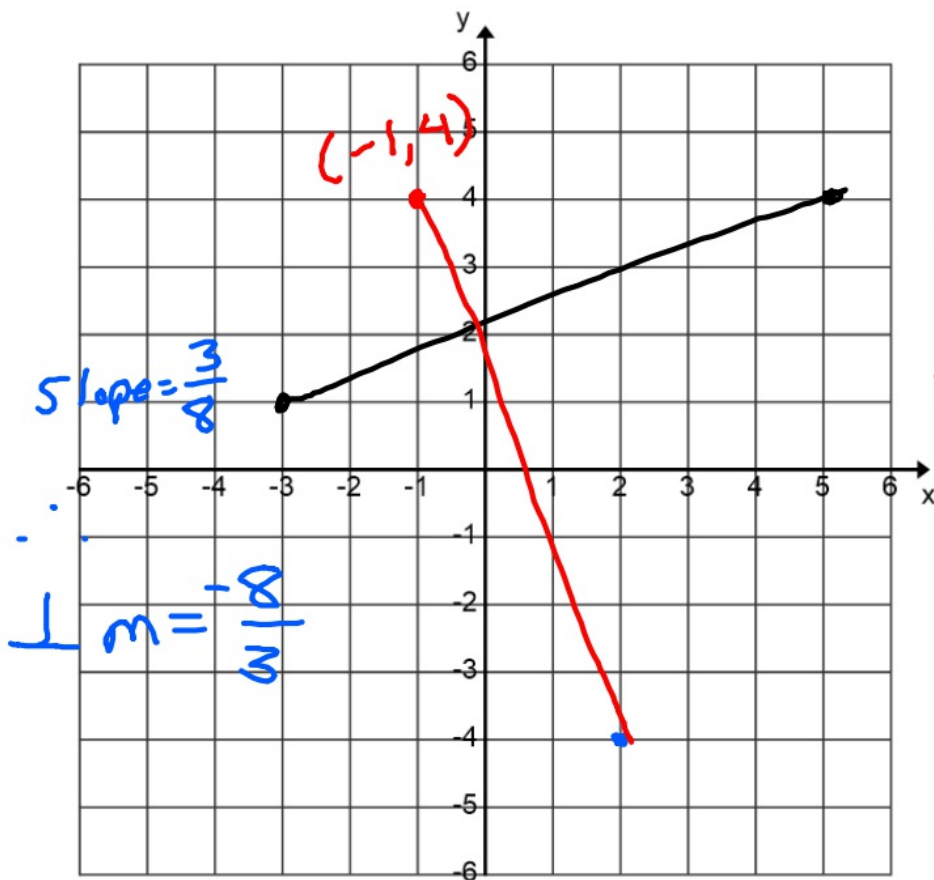
$(-3, 4)$  and  $(2, 24)$ .

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{24-4}{2-(-3)} = \frac{20}{5} = 4$$

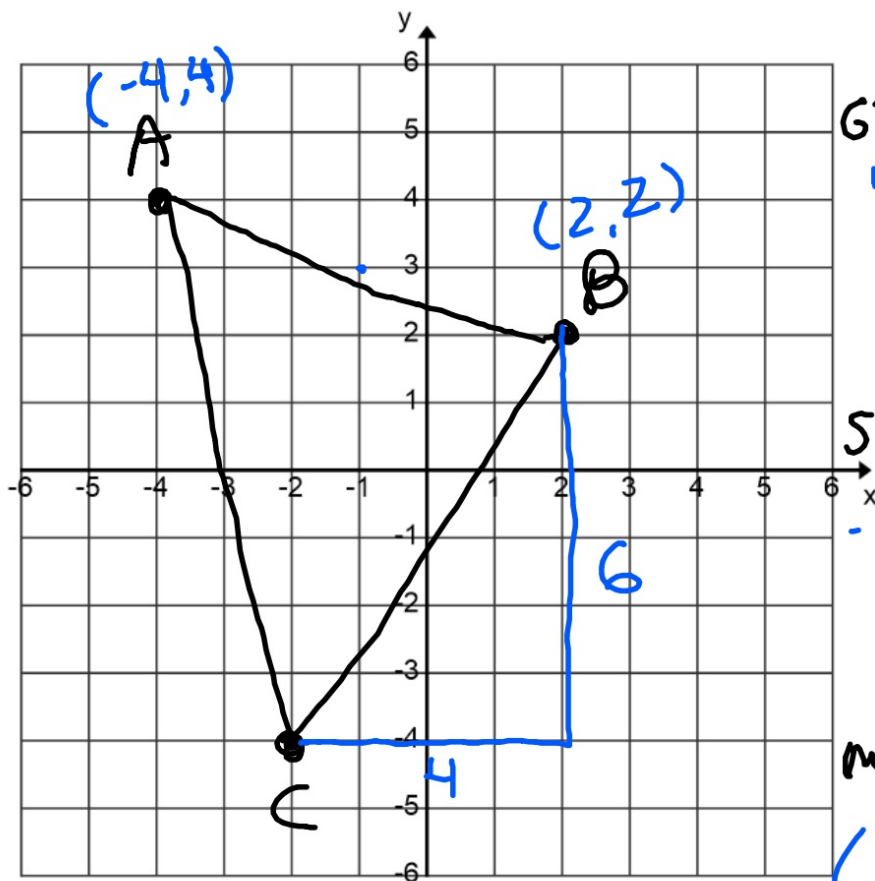
④ What is slope of line that is perpendicular to line that goes through  $(5, 4)$  and  $(1, 2)$ .

$$\text{slope} = \frac{\Delta y}{\Delta x} = \frac{4-2}{5-1} = \frac{2}{4} = \frac{1}{2}$$

$$\therefore \perp m = -2$$



Give a point on this graph that makes a line with the blue dot that is  $\perp$  to the black line.



Give distance  $\overline{BC}$

$$4^2 + 6^2 = \text{hyp}^2$$

$$\sqrt{52} = \text{hyp}^2$$

$$\text{hyp} \approx 7.2$$

Slope of  $\overline{AC}$

$$-\frac{8}{2} = -4$$

Midpoint of  $\overline{AB}$

$$\left( \frac{-4+2}{2}, \frac{4+2}{2} \right)$$

$$(-1, 3)$$