OIL, or

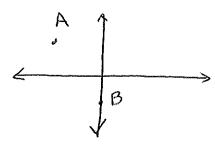
Math 118 - Dr. Miller - Quiz #12: Coordinate Geometry - In-Class, Monday, 04/07/14

If point A is in Quadrant II and point B is on the negative y-axis, give all possible locations (quadrants, positive and negative axes) where the midpoint of \overline{AB} could lie.

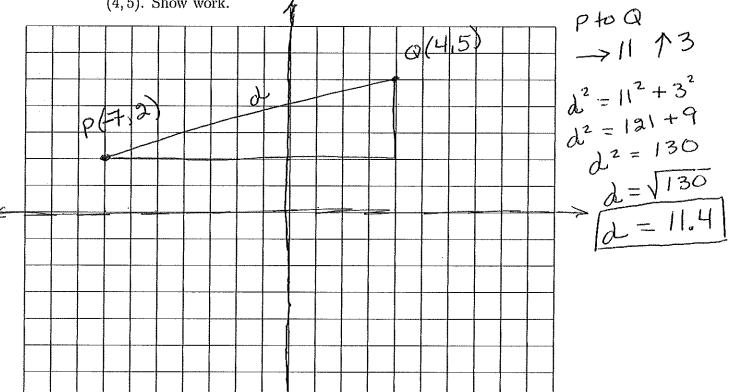
Ouadrant II

O III

or negative x-axis



2. (a) Find the distance, rounded to the nearest tenth, between P = (-7, 2) and Q = (4, 5). Show work.

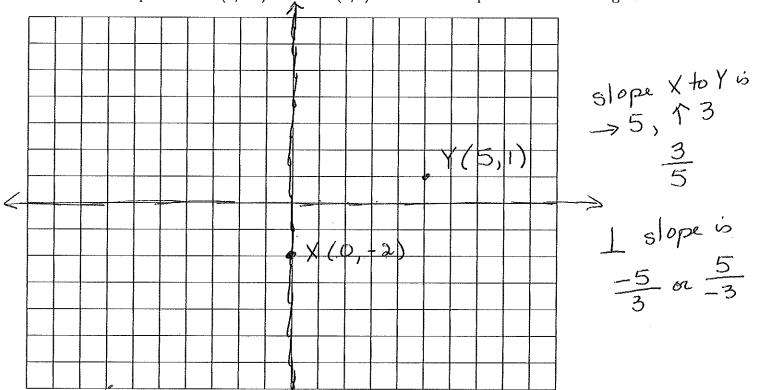


Find the coordinates of the point that is 1/4 of the way from Q to P. Show work.

Start @
$$Q = (4,5)$$

Move $\leftarrow 3.75 \text{ V.} 75$
End @ $(0.25, 4.25)$
Move $\downarrow 0 \leftarrow 11, \downarrow 3$

3. Use points X = (0, -2) and Y = (5, 1) to answer the questions below the grid.



(a)) Find the coordinates of a point Z so that $\triangle XYZ$ is an isosceles right triangle with right angle at Y. Show work as needed, but at least write your answer HERE.

(a) Find the coordinates of a point
$$Z$$
 so that $\triangle XYZ$ is an isosceles right triangle with right angle at Y . Show work as needed, but at least write your answer HERE.

Start $\bigcirc Y(5,1)$

The start $\bigcirc Y(5,1)$

Start $\bigcirc Y(5,1)$

The start \bigcirc

1.5

(b) If M = (2, 2), find the coordinates of a point K so that $\overrightarrow{XY} \parallel \overrightarrow{KM}$ and 2KM = 5XY. $KM = 2.5 \times Y$

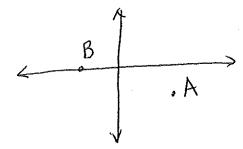
Start
$$\otimes$$
 $M = (2,2)$, and the coordinates of a point X
 \Rightarrow 12.5 \uparrow 7.5
 \Rightarrow 12.5 \uparrow 7.5
 \Rightarrow 12.5 \downarrow 7.5

or your <- 12.5 \$7.5 to grade (-10.5,-5.5)

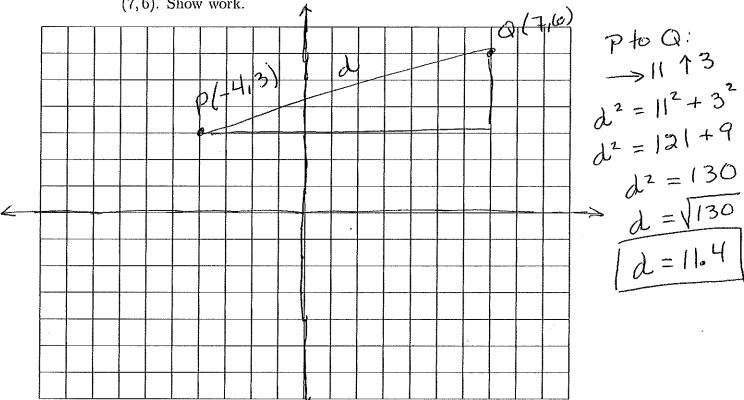
more g.5 times ∫or ←5 √3

If point A is in Quadrant IV and point B is on the negative x-axis, give all possible locations (quadrants, positive and negative axes) where the midpoint of \overline{AB} could lie.

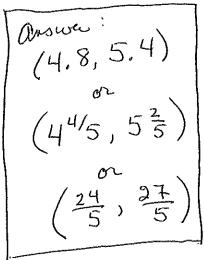
Danie .



Find the distance, rounded to the nearest tenth, between P = (-4,3) and Q = (7,6). Show work.



(b) Find the coordinates of the point that is 1/5 of the way from Q to P. Show work.



My on

3. Use points X = (-2,0) and Y = (1,5) to answer the questions below the grid. Slope Xto Y -> 3 15 + slope is $\frac{3}{5} = \frac{3}{5}$ 2.0) (1) Find the coordinates of a point Z so that $\triangle XYZ$ is an isosceles right riangle with right angle at Y. Show work as needed, but at least write your answer HERE. Start @ Y (1,5) 4 Move -5 1 3 End @ Z (-4,8) Start @ Y (1,5) or End @ 7 (6,2) answers: (6,2) or (-4,8) (b) If M = (2, 2), find the coordinates of a point K so that $\overrightarrow{XY} \parallel \overrightarrow{KM}$ and (5KM = 2XY)Start @ M(2,2) more >1.2 12 End @ (3.2, 4) Start @ M (2,2) ymore \(\int_{1.2} \forall 2\)
\(\forall_{\text{End}} \(\forall_{0.8,0} \) OL answers: (3.2,4) or (0.8,0) yrrove . 4 times