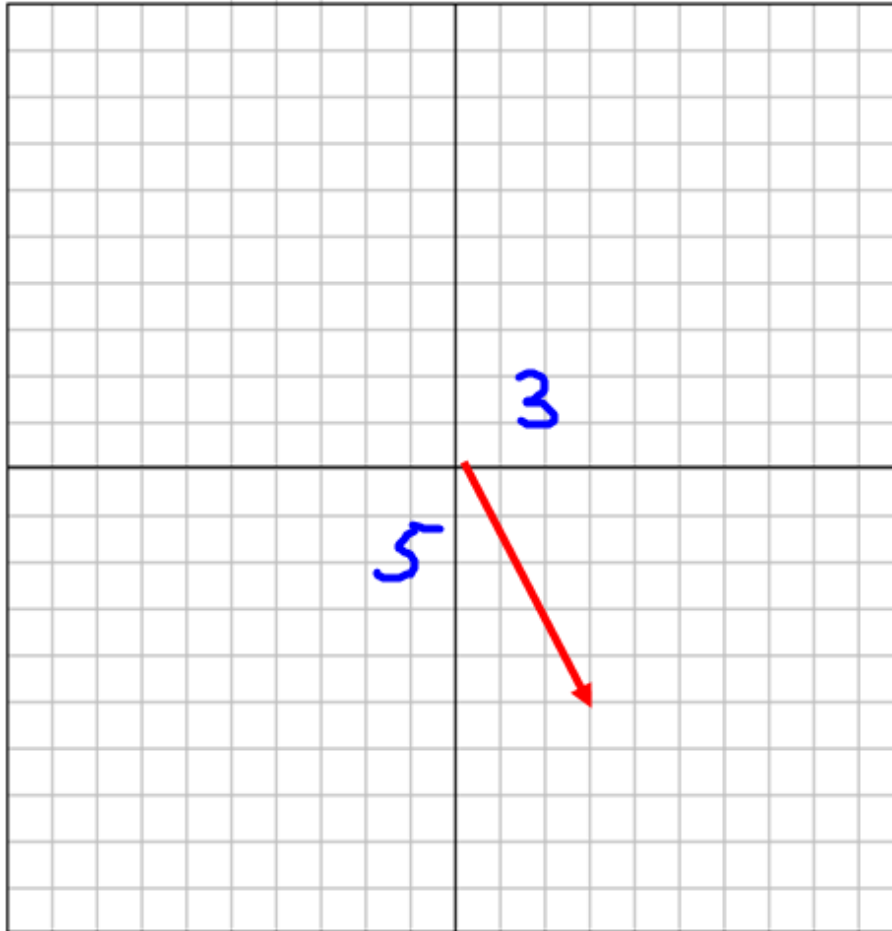
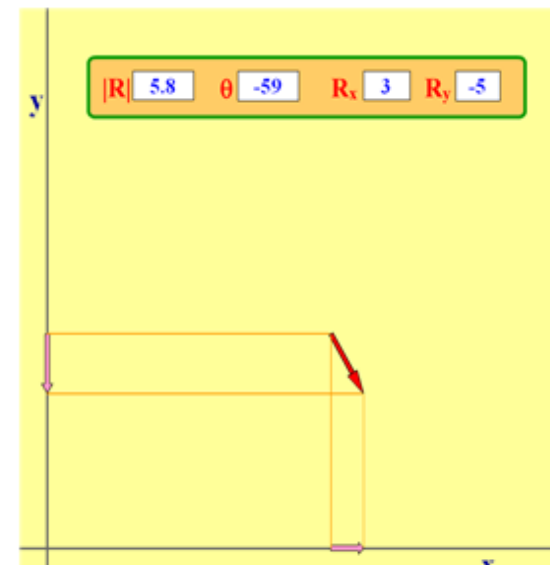


4. + -1 points Notes

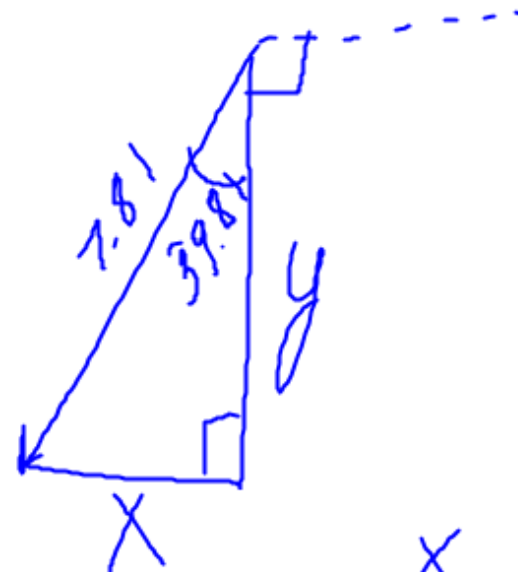
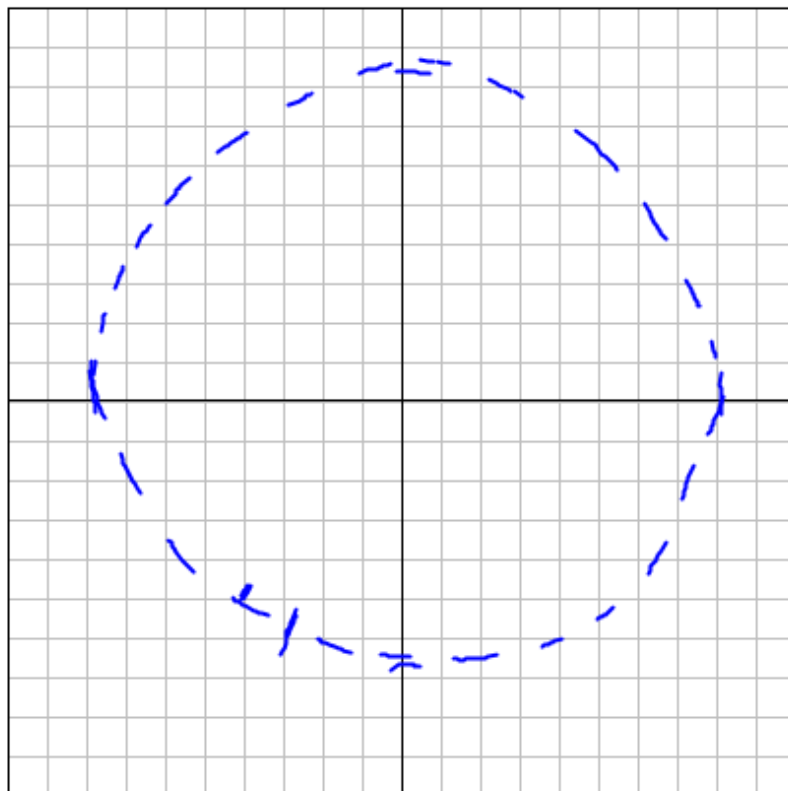
Draw the vector given by $3\mathbf{i} - 5\mathbf{j}$.



\hat{i} \times
 \hat{j} \times
 \hat{k} \times



Draw the vector of length 7.81 at an angle of -129.81° as measured counter-clockwise from the positive horizontal axis.



$$\sin 39.81 = \frac{X}{7.81}$$
$$\cos 39.81 = \frac{Y}{7.81}$$

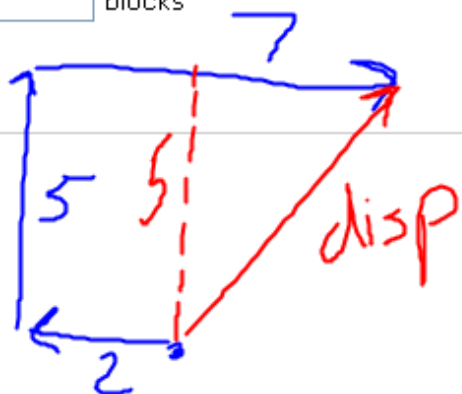
A girl delivering newspapers travels 2 blocks west, 5 blocks north, and then 7 blocks east.

(a) What is her resultant displacement?

blocks at ° counterclockwise from east.

(b) What is the total distance she travels?

blocks



$$A^2 = B^2 + C^2$$

$$d^2 = 5^2 + 5^2$$

$$d = \sqrt{50}$$

$$= 7.07$$

$$\text{dist} = 2 + 5 + 7$$



TOA

$$\tan \theta = \frac{5}{1}$$

$$\theta = \tan^{-1} \left(\frac{5}{1} \right)$$