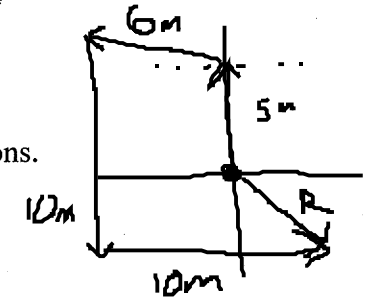
IX. Vector Resolution

Create a scale and draw a vector map for a person that walks the listed directions.

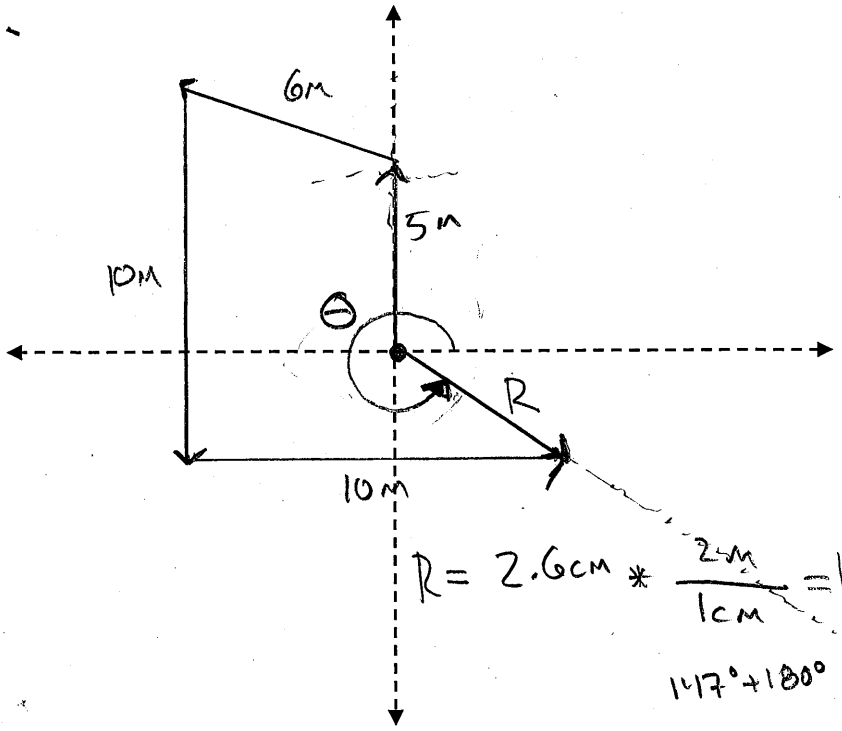
1. Walks 5 m at 90 degrees
2. Walks 6 m at 160 degrees
3. Walks 10 m at 270 degrees
4. Walks 10 m at 0 degrees

SKETCH



1 cm = 2 m

A. Draw the displacement (resultant) of the person after he travels all the listed directions.
B. Determine the total displacement (resultant with direction and magnitude))



$R = 2.6\,cm * \frac{2\,m}{1\,cm} = 5.2\,m$

$147° + 180° = 327°$