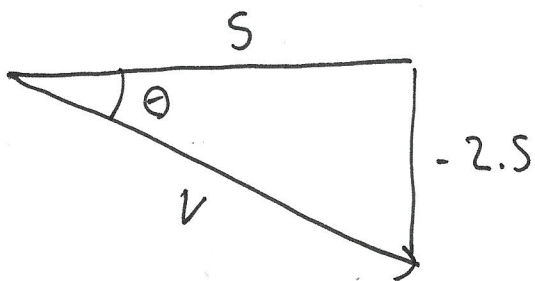
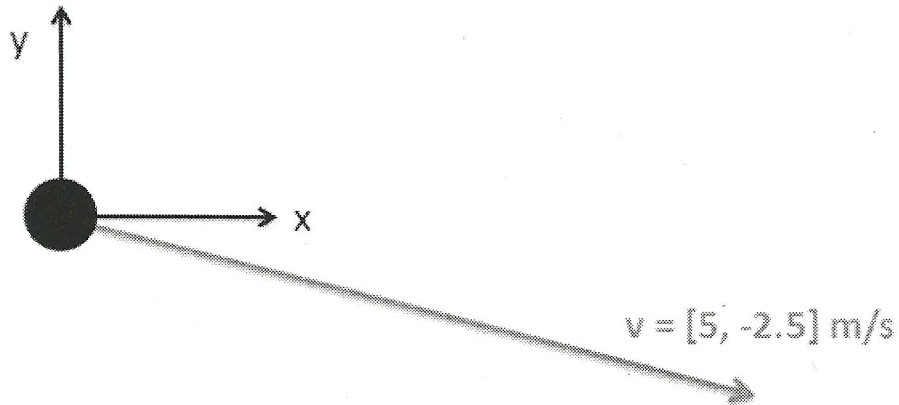


### Question 3:

The velocity vector of the hockey puck shown below is given in component form. Determine the magnitude and direction of the velocity with respect to the axes given.



$$|v| = \sqrt{5^2 + (-2.5)^2} = 5.59 \text{ m/s}$$

$$\theta = \tan^{-1}\left(\frac{2.5}{5}\right) = 26.57^\circ$$

