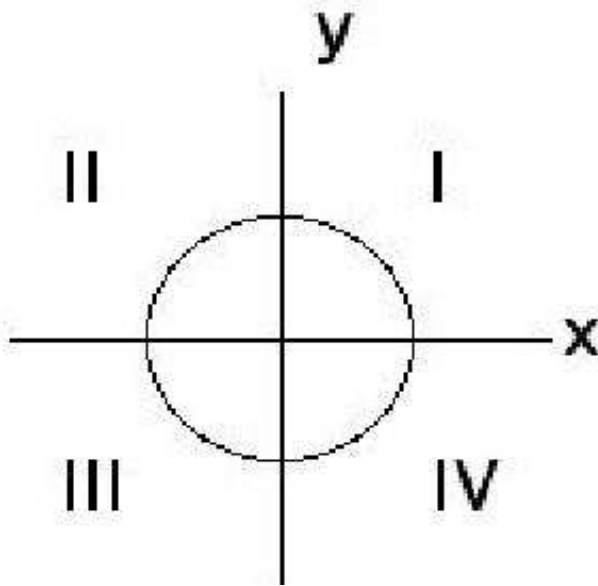A object is moving counter-clockwise on the circular trajectory shown below. Where is the object when the velocity vector is $\vec{v} = 2\hat{x} - 2\hat{y}$?

A. quadrant I   **B**. quadrant II

C. quadrant III   **D**. quadrant IV