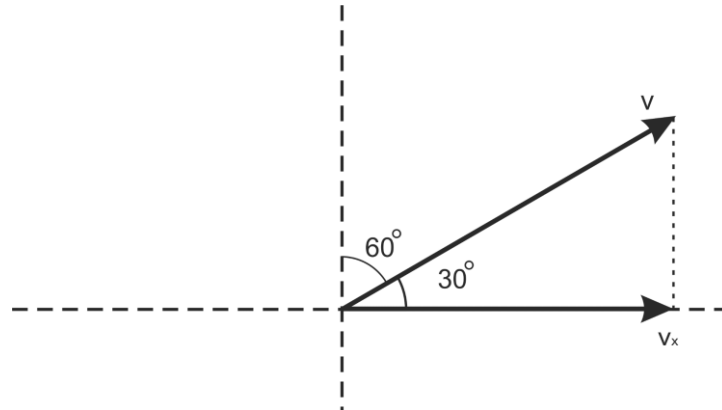


Answer on Question #53111, Physics / Mechanics | Kinematics | Dynamics

An object travels with velocity $v = 4.0$ meters/second and it makes an angle of 60.0° with the positive direction of the y-axis. Calculate the possible values of v_x

Solution:



$$v_x = v \cos 30^\circ = 4 * \cos 30^\circ = 3.464 \text{ m/s}$$

Answer: $v_x = 3.464 \approx 3.5 \text{ m/s}$