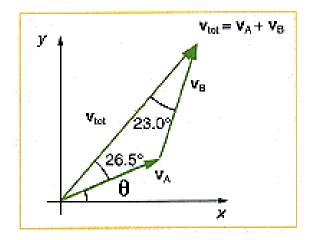
## Answer on Question #73273-Physics-Other

Find the magnitudes of velocities vA and vB in the figure below, where, $\theta$  = 23.5° and vtot = 6.48 m/s.

## Solution



We use Sine rule:

$$v_a = 6.48 \frac{\sin(23.0)}{6.48 \sin(180 - 23 - 26.5)} = 3.33 \frac{m}{s}.$$
$$v_b = 6.48 \frac{\sin(26.5)}{6.48 \sin(180 - 23 - 26.5)} = 3.80 \frac{m}{s}.$$

Answer provided by <a href="https://www.AssignmentExpert.com">https://www.AssignmentExpert.com</a>