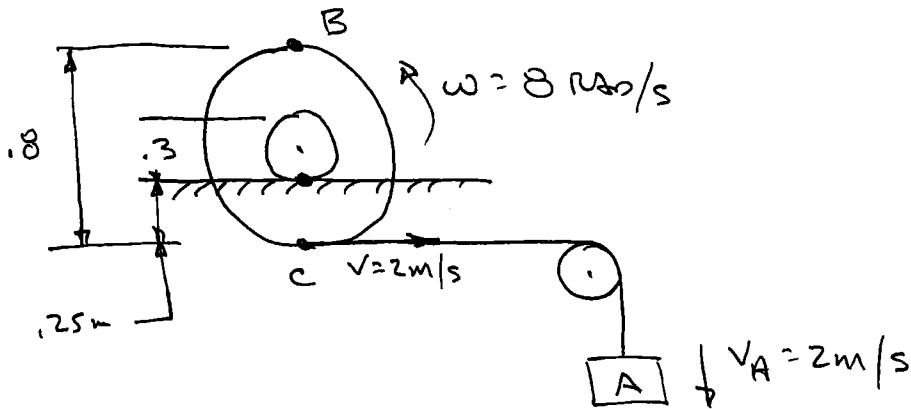


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$$v_c = r_c \omega$$

$$\omega = \frac{v}{r} = \frac{2 \text{ m/s}}{0.25 \text{ m}} = 8 \text{ rad/s}$$

$$v_B = r_B \omega = (0.3 + 0.25) 8 \text{ rad/s} \quad \boxed{4.4 \text{ m/s} \rightarrow}$$