## One Degree of Freedom: Exercise
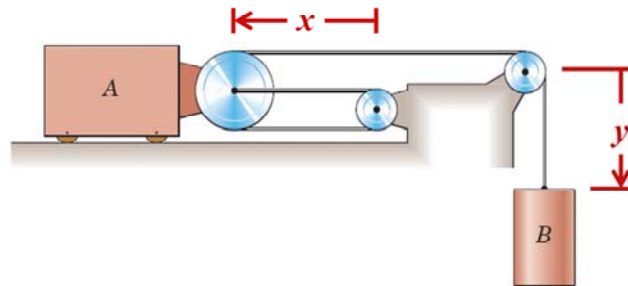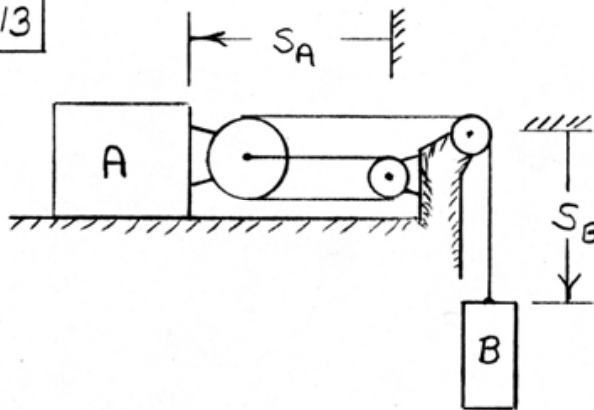


Block $A$ has a **velocity** of 3.6 ft/s to the right.

Determine the **velocity** of cylinder $B$.

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Length of cable $L = 3S_A + S_B + $ constant

Differentiate: $0 = 3v_A + v_B$

$$v_B = -3v_A = -3(-3.6)$$
$$= 10.8 \ ft/sec \ (down)$$