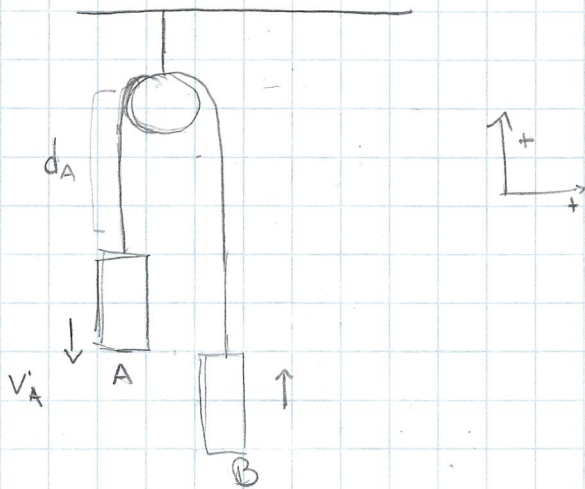


20-P-KM-AF-023

Absolute Dependent Motion: Beginner

Q: If block A moves with a downward speed of V_A m/s. What is the direction and speed at which block B moves at.



A: $d_A + d_B = l$

↳ take derivative

$$V_A + V_B = 0 \Rightarrow V_B = -V_A \Rightarrow V_B = -(-A) = A \text{ m/s}$$

speed: A

direction: upwards