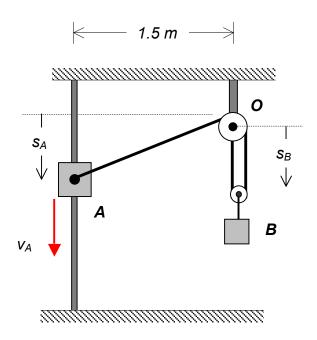
Homework H.1.I

Given: Blocks A and B are connected by the pulley-system shown below. Block A moves downward with a constant speed of v_A on a vertical guide. Assume the radii of the pulleys to be small.

Find: For this problem:

- (a) Determine the speed of block B when $s_A=0$ m.
- (b) Determine the speed of block B when $s_A = 4$ m.

18 *m* / *sec*



Use the following parameters in your analysis: $v_A = 25 \text{ m/s}$.

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