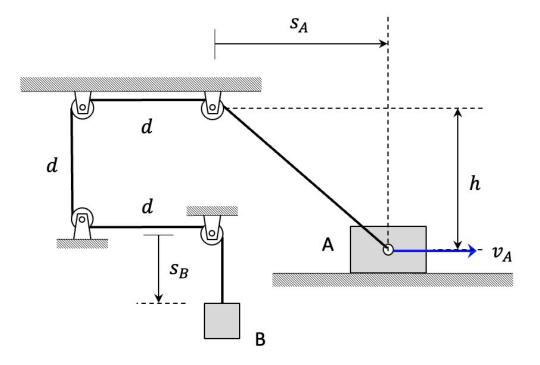
Homework H1.J

Given: Blocks A and B are connected by a single inextensible cable with the cable being pulled over four fixed small pulleys, as shown in the figure. The distances d shown in the figure are known to be constant. Block A is moving to the right along a straight horizontal surface with a speed of v_A .

Find:

- (a) Determine the speed of B, v_B . Your answer should be in terms of, at most: h, s_A and v_A .
- (b) Which is larger, v_A or v_B , as A moves to the right? Provide an explanation for your answer.



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