## 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 $s_{A}=0 \mathrm{~m}$.
(b) Determine the speed of block B when $s_{A}=4 \mathrm{~m}$.


Use the following parameters in your analysis: $v_{A}=25 \mathrm{~m} / \mathrm{s}$.

