Exam 4B, Fall 2005: Problem 2 (Rigid Body WE)
2. ( 25 points) Shown below is a 20 kg disk $A$ whose center is attached to a $\mathbf{1 0} \mathbf{~ k g}$ mass $B$ via a massless cable. The system, starting from rest, is released to move, and the wheel rolls without slipping. When B has fallen 5 m , please determine the speed of $B\left(v_{B}\right)$.



