

Final Exam, Spring 2005A: Problem 6 (Rigid Body Work Energy)

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6. (25 points) Shown below is a 10 kg drum and a 10 kg disk. A cable is wrapped around the drum and attached to the center of the wheel, which rolls without slip. At the instant shown, drum A has an angular velocity of 8 rad/sec. At this instant, please determine the total kinetic energy stored in this system.

