Sim Instructions

Use the simulation provided by your instructor and follow the instructions listed below to acquire your raw data.

1. Set the pulley radius to 1.5 m and the pulley mass to 5 kg.
2. Under "Simulation Type", select the "Constant Pulling Force" option.
3. Under "Mass Distribution", select "Solid Cylinder".
4. Set the pulling force to 10 N, then press "Start" to run the simulation. Record the torque τ (the first value in the simulation) and the angular acceleration α (the second value) in Table 1. Repeat the simulation for each pulling force listed.
5. Under "Mass Distribution", select "Cylindrical Shell", then repeat Step 4 for the new pulley. The value of the torque should not change.