Pulley and Mass Practice

For each of the configurations below, determine linear acceleration of the mass and the tension in the cable(s). In each case, the pulley mass is 700g and the attached mass is 400g.

1) Solid spherical pulley of radius 25.0 cm

2) Ramped pulley of radius 20.0 cm
3) A motor of constant torque = 2.00 Nm applied to the wheel of radius 15.0 cm winds
the mass upwards.
4) Two pulleys, one with a radius of 18.0 cm and the other with a radius of 22.0 cm are attached to the same mass.
5) Two pulleys of radius 22.0 cm are attached in series.