- 2. A steel ball of radius r is rolling on a frictionless vertical circular track. Its rotational inertia about the center of mass is $I = amr^2$, where r is the radius of the ball. If the ball is released from rest at point A,
 - (a) What is its speed at point B at the bottom of the track?
 - (b) What is the force of the track on the ball at point B and in which direction does it act?

