

Quiz**Name**

A ball of radius 0.1 meters and mass 0.2 kilograms rolls down an inclined plane that makes an angle of 30° with the horizontal.

1a. Express the frictional force on the ball in terms of its angular acceleration.

1b. Express the total force in terms of the linear acceleration of the ball down the plane.

1c. Compute the linear acceleration of the motion of the ball down the plane.