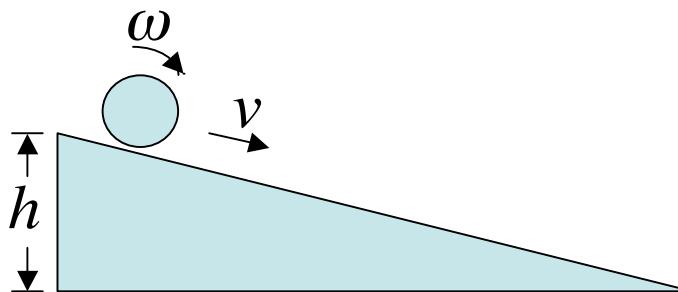


Conservation of Energy



P.E. Reference

If the object is now made to roll down an incline of height h as shown, the correct equation for energy conservation is (assume $r \ll h$):

- a.) $mgh = \left(\frac{1}{2}\right)mv^2$
- b.) $mgh = \left(\frac{1}{2}\right)I\omega^2$
- c.) $mgh = \frac{1}{2}(mv^2 + I\omega^2)$
- d.) $mgh = \frac{1}{2}mv^2 + I\omega^2$
- e.) $mgh = (mv^2 + I\omega^2)$