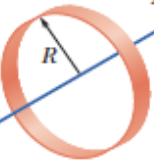
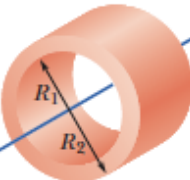
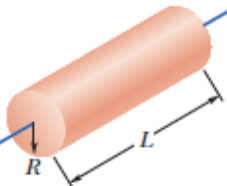
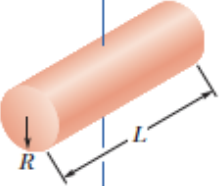
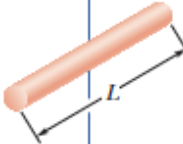
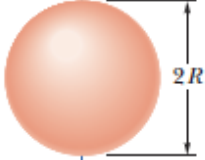
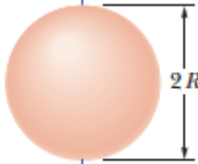
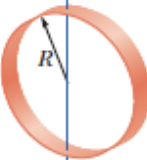
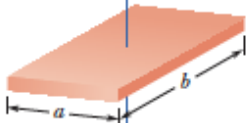


Table 10-2

## Some Rotational Inertias

 <p>Hoop about central axis</p> $I = MR^2$ <p>(a)</p>	 <p>Annular cylinder (or ring) about central axis</p> $I = \frac{1}{2}M(R_1^2 + R_2^2)$ <p>(b)</p>	 <p>Solid cylinder (or disk) about central axis</p> $I = \frac{1}{2}MR^2$ <p>(c)</p>
 <p>Solid cylinder (or disk) about central diameter</p> $I = \frac{1}{4}MR^2 + \frac{1}{12}ML^2$ <p>(d)</p>	 <p>Thin rod about axis through center perpendicular to length</p> $I = \frac{1}{12}ML^2$ <p>(e)</p>	 <p>Solid sphere about any diameter</p> $I = \frac{2}{5}MR^2$ <p>(f)</p>
 <p>Thin spherical shell about any diameter</p> $I = \frac{2}{3}MR^2$ <p>(g)</p>	 <p>Hoop about any diameter</p> $I = \frac{1}{2}MR^2$ <p>(h)</p>	 <p>Slab about perpendicular axis through center</p> $I = \frac{1}{12}M(a^2 + b^2)$ <p>(i)</p>