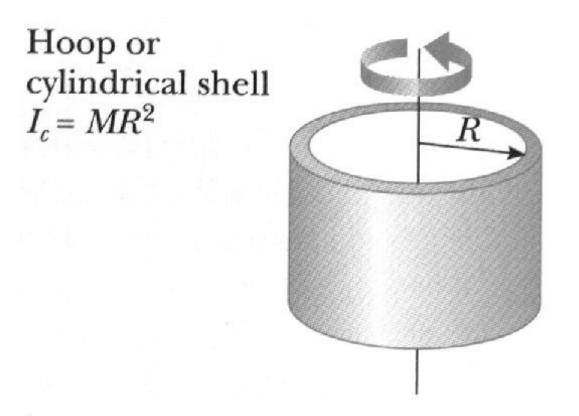
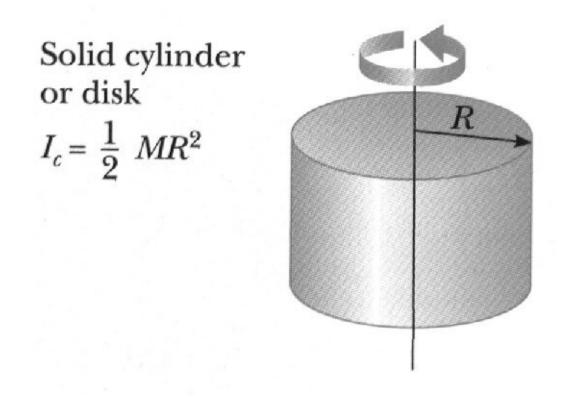
Moment of Inertia of a Cyclinder



Average radius squared is  $R^2$ 

Moment of Inertia of a Solid Cyclinder



Average radius squared is  $\langle r^2 \rangle < R^2$ 

