

## Solutions to: [Elder] Angular Momentum Practice

1.

**IDENTIFY:** Apply conservation of angular momentum.

**SET UP:** For a uniform sphere and an axis through its center,  $I = \frac{2}{5}MR^2$ .

**EXECUTE:** The moment of inertia is proportional to the square of the radius, and so the angular velocity will be proportional to the inverse of the square of the radius, and the final angular velocity is

$$\omega_2 = \omega_1 \left( \frac{R_1}{R_2} \right)^2 = \left( \frac{2\pi \text{ rad}}{(30 \text{ d})(86,400 \text{ s/d})} \right) \left( \frac{7.0 \times 10^5 \text{ km}}{16 \text{ km}} \right)^2 = 4.6 \times 10^4 \text{ rad/s.}$$

**EVALUATE:**  $K = \frac{1}{2}I\omega^2 = \frac{1}{2}L\omega$ .  $L$  is constant and  $\omega$  increases by a large factor, so there is a large increase in the rotational kinetic energy of the star. This energy comes from potential energy associated with the gravity force within the star.

2.

**IDENTIFY:** Apply conservation of angular momentum to the motion of the skater.

**SET UP:** For a thin-walled hollow cylinder  $I = mR^2$ . For a slender rod rotating about an axis through its center,  $I = \frac{1}{12}ml^2$ .

**EXECUTE:**  $L_i = L_f$  so  $I_i\omega_i = I_f\omega_f$ .

$$I_i = 0.40 \text{ kg} \cdot \text{m}^2 + \frac{1}{12}(8.0 \text{ kg})(1.8 \text{ m})^2 = 2.56 \text{ kg} \cdot \text{m}^2. \quad I_f = 0.40 \text{ kg} \cdot \text{m}^2 + (8.0 \text{ kg})(0.25 \text{ m})^2 = 0.90 \text{ kg} \cdot \text{m}^2.$$

$$\omega_f = \left( \frac{I_i}{I_f} \right) \omega_i = \left( \frac{2.56 \text{ kg} \cdot \text{m}^2}{0.90 \text{ kg} \cdot \text{m}^2} \right) (0.40 \text{ rev/s}) = 1.14 \text{ rev/s.}$$

**EVALUATE:**  $K = \frac{1}{2}I\omega^2 = \frac{1}{2}L\omega$ .  $\omega$  increases and  $L$  is constant, so  $K$  increases. The increase in kinetic energy comes from the work done by the skater when he pulls in his hands.

3.

**IDENTIFY:** Apply conservation of angular momentum to the system of earth plus asteroid.

**SET UP:** Take the axis to be the earth's rotation axis. The asteroid may be treated as a point mass and it has zero angular momentum before the collision, since it is headed toward the center of the earth. For the earth,  $L_i = I\omega_i$  and  $I = \frac{2}{5}MR^2$ , where  $M$  is the mass of the earth and  $R$  is its radius. The length of a day is

$$T = \frac{2\pi \text{ rad}}{\omega}, \text{ where } \omega \text{ is the earth's angular rotation rate.}$$

**EXECUTE:** Conservation of angular momentum applied to the collision between the earth and asteroid

$$\text{gives } \frac{2}{5}MR^2\omega_i = (mR^2 + \frac{2}{5}MR^2)\omega_2 \text{ and } m = \frac{2}{5}M \left( \frac{\omega_i - \omega_2}{\omega_2} \right). \quad T_2 = 1.250T_1 \text{ gives } \frac{1}{\omega_2} = \frac{1.250}{\omega_1} \text{ and}$$

$$\omega_1 = 1.250\omega_2, \quad \frac{\omega_1 - \omega_2}{\omega_2} = 0.250. \quad m = \frac{2}{5}(0.250)M = 0.100M.$$

**EVALUATE:** If the asteroid hit the surface of the earth tangentially it could have some angular momentum with respect to the earth's rotation axis, and could either speed up or slow down the earth's rotation rate.

# Angular Momentum Practice Problems And Solutions

**Greg Jacobs**



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