

# Rotational Motion Examples, including centripetal force

How many degrees is 3 radians?

$$\frac{3 \text{ rad}}{1} \left( \frac{360^\circ}{2\pi \text{ rad}} \right) = 172^\circ$$

A person spins a 1.5 kg ball around their head on a rope. If the person is spinning the bucket clockwise

A) Find it's angular velocity it spins around 75 times in 1 minute?

$$\omega = \frac{\Delta\theta}{t} \quad \theta = 75 \text{ times} \left( \frac{2\pi}{1 \text{ rev}} \right) = \frac{471 \text{ rad}}{60 \text{ sec}} = -7.85 \text{ rad/sec}$$

neg. because moving clockwise

B) If the person has to hold onto the rope with  $\frac{F_c}{235 \text{ N}}$  of friction, how much rope is there between the person and the ball?

$$F_c = m r \omega^2 \quad r = \frac{F_c}{m \omega^2} = \frac{235}{(1.5)(7.85)^2} =$$

Friction gives the centripetal force to hold onto the rope.

C) What is the speed of the ball at the end of the rope?  
 "at the end" means "at the radius" which is tangential.

$$v_t = r \omega = 2.54 (-7.85) = -20 \text{ m/s}$$

D) If the person starts to pull harder and harder until they are pulling with 410 N after 20 seconds, what is the angular acceleration of the ball (the rope does not get longer)?

Use  $F_c = m r \omega^2$  to find the  $\omega_f$ , then use a kinematic to find  $\alpha$ .

$$410 = 1.5 (2.54) (\omega)^2$$

$$\omega_f = \sqrt{\frac{410}{1.5(2.54)}} = -10.4 \text{ rad/sec}$$

not linear:  
 $v_f = v_i + a t$

convert to angular:

$$\frac{v_f - v_i}{t} = a = \alpha = \frac{\omega_f - \omega_i}{t} = \frac{-10.4 - (-7.85)}{20 \text{ sec}}$$

$$\alpha = -0.128 \text{ rad/sec}^2$$

# Rotational Motion Study Guide Answers

**John R. Gordon, Raymond A. Serway**



## **Rotational Motion Study Guide Answers:**

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