

## Section

## 7-2

## HOLT PHYSICS

## Concept Review

## Tangential and Centripetal Acceleration

$$\omega_f = \omega_i + \alpha t$$

1. A wheel accelerates from rest at  $1.0 \text{ rad/s}^2$ . Find the instantaneous angular speed of the wheel at the following times.

a.  $0.10 \text{ s}$   $0.1 \text{ rad/s}$       c.  $1.0 \text{ s}$   $1 \text{ rad/s}$   
 b.  $0.50 \text{ s}$   $0.5 \text{ rad/s}$       d.  $2.0 \text{ s}$   $2 \text{ rad/s}$

e.  $5.0 \text{ s}$   $5 \text{ rad/s}$   
 f.  $10.0 \text{ s}$   $10 \text{ rad/s}$

2. If the wheel in item 1 has a radius of  $0.35 \text{ m}$ , find the tangential speed of a point on the rim of the wheel at each time in item 1.

a.  $0.035 \text{ m/s}$       c.  $0.35 \text{ m/s}$   
 b.  $0.175 \text{ m/s}$       d.  $0.7 \text{ m/s}$

e.  $1.75 \text{ m/s}$   
 f.  $3.5 \text{ m/s}$

3. If the wheel in item 1 has a radius of  $0.35 \text{ m}$ , find the tangential acceleration of a point on the rim of the wheel.

4. Find the ratio of the centripetal accelerations for the sets of rotating objects described below.

a.  $r_1 = r_2 = 2.00 \text{ m}$ ;  $v_{t,1} = 10.0 \text{ m/s}$ ,  $v_{t,2} = 5.00 \text{ m/s}$   
 b.  $v_{t,1} = v_{t,2} = 10.0 \text{ m/s}$ ;  $r_1 = 2.00 \text{ m}$ ,  $r_2 = 1.00 \text{ m}$   
 c.  $\omega_1 = \omega_2 = 10.0 \text{ rad/s}$ ;  $r_1 = 2.00 \text{ m}$ ,  $r_2 = 1.00 \text{ m}$

5. Consider a car moving at a constant speed of  $35.0 \text{ m/s}$  on a flat road. The car turns around a curve that is  $65.0 \text{ m}$  in radius.

a. Find the centripetal acceleration of the car. \_\_\_\_\_  
 b. What provides the force necessary to make the car turn? \_\_\_\_\_

# Holt Physics Section 4 Concept Review Answers

**M Woodhall**



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