

Name Key
 Period _____
 Date _____

Arc Length, Sector Area of a Circle, Linear and Angular Velocity Practice

Directions: Solve these problems.

1. Find the length of \overline{XY} .



$$\Delta = r\theta$$

$$\Delta = 10 \cdot \frac{7\pi}{18}$$

$$\Delta = 12.2 \text{ units}$$

$$70^\circ \times \frac{\pi}{180^\circ} = \frac{7\pi}{18}$$

2. A 40-inch pendulum swings through an angle of 18° . Find the length of the arc in inches through which the tip of the pendulum swings



$$\Delta = r\theta$$

$$= 40 \cdot \frac{\pi}{10}$$

$$= 12.57 \text{ in}$$

$$18^\circ \times \frac{\pi}{180^\circ} = \frac{\pi}{10}$$

3. The central angle of a sector is $\frac{\pi}{3}$ and the area of the circle is 144π . What is the area of the sector?

Area of circle

$$A = \pi r^2$$

$$144\pi = \pi r^2$$

$$144 = r^2$$

$$r = 12 \text{ units}$$

Sector area

$$A = \frac{\theta}{2} r^2$$

$$= \frac{\frac{\pi}{3}}{2} \cdot 12^2$$

$$= \frac{\pi}{6} \cdot 144$$

$$= 75.4 \text{ sq. units}$$

4. A pizza with 21 cm radius is divided into 6 equal slices (slices are in the shape of a sector). Find the area of each slice.

Each slice has an angle of 60° Why?

$$A = \frac{\theta}{2} r^2$$

$$= \frac{\frac{\pi}{3}}{2} \cdot 21^2$$

$$= \frac{\pi}{6} \cdot 441 = 230.9 \text{ cm}^2$$

$$60^\circ \times \frac{\pi}{180^\circ} = \frac{\pi}{3}$$

$$\frac{\frac{\pi}{3}}{2} \cdot \frac{1}{2} = \frac{\pi}{6}$$

5. While a record is spinning, a ladybug lands on the turntable 10 inches from the center. What is the linear speed in feet per second of the ladybug when the turntable is set to 45rpm?

$$v = r\omega$$

$$= 10 \text{ in} \cdot \frac{45 \text{ rev}}{1 \text{ min}} \cdot \frac{2\pi}{1 \text{ rev}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \cdot \frac{1 \text{ ft}}{12 \text{ in}} = 3.9 \frac{\text{ft}}{\text{sec}}$$

6. A neighborhood carnival has a Ferris wheel whose radius is 30 feet. You measure the time it takes for one revolution to be 70 seconds. Find the angular and linear speed of the Ferris wheel.

Angular speed

$$\omega = \frac{\theta}{t} = \frac{2\pi}{70} = \frac{\pi}{35}$$

$$\approx 0.089 \frac{\text{ft}}{\text{sec}}$$

Linear speed

$$v = r\omega$$

$$= 30 \cdot \frac{\pi}{35}$$

$$= 2.7 \frac{\text{ft}}{\text{sec}}$$

Problems Involving Length Of Arc

Puja Mehta

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