

Name: _____
 Precalculus
 Review through 5.4
 Trig Functions

Convert these degree measures into radian measures.

1) 300

$$\cancel{300 \text{ DEG}} \times \frac{\pi \text{ RAD}}{180 \text{ DEG}} = \boxed{\frac{5\pi}{3}}$$

2) -45

$$\boxed{\frac{-\pi}{4}}$$

3) 120

$$\boxed{\frac{2\pi}{3}}$$

Convert these radian measures into degree measures.

4) $\frac{2\pi}{5}$

$$\cancel{\frac{2\pi}{5} \text{ RAD}} \times \frac{180 \text{ DEG}}{\pi \text{ RAD}} = \boxed{72}$$

5) π

$$\boxed{180}$$

6) $\frac{7\pi}{8}$

$$\cancel{\frac{7\pi}{8} \text{ RAD}} \times \frac{180 \text{ DEG}}{\pi \text{ RAD}} = \frac{7 \times 45}{8} = \frac{315}{8} = \boxed{39.375}$$

7) Convert 70 RPM's into rad/sec

$$\cancel{70 \text{ REV}} \times \frac{\pi \text{ RAD}}{1 \text{ REV}} \times \frac{1 \text{ MIN}}{60 \text{ SEC}} = \boxed{\frac{7\pi}{3} \text{ RAD/SEC}}$$

8) Convert 3 rad/sec into RPM's

$$\cancel{3 \text{ RAD}} \times \frac{\text{REV}}{\pi \text{ RAD}} \times \frac{60 \text{ SEC}}{1 \text{ MIN}} = \boxed{\frac{90}{\pi} \text{ RPM's}}$$

9) Find the radius of a circle if a central angle of 30 degrees intercepts an arc of 21 feet.

$$S = \theta r \quad \theta = 30 \text{ DEG} = \boxed{\frac{\pi}{6} \text{ RAD}}$$

$$21 = \frac{\pi}{6} \cdot r \quad r = 21 \left(\frac{6}{\pi} \right) = \boxed{\frac{126}{\pi} \text{ FT}}$$

10) Find the linear velocity of the outer edge of a 27-inch diameter bicycle tire if it is spinning at a rate of 2 RPM's. Write your answer in feet/sec.

$$V = \omega r \quad \cancel{2 \text{ REV}} \times \frac{1 \text{ MIN}}{60 \text{ SEC}} \times \frac{2\pi \text{ RAD}}{1 \text{ REV}} \Rightarrow \omega = \frac{\pi}{15} \text{ RAD/SEC}$$

$$V = \frac{\pi}{15} \text{ RAD/SEC} \times \left(\frac{27 \text{ IN}}{2} \right) \times \frac{\text{FT}}{12 \text{ IN}} \Rightarrow V = \boxed{\frac{3\pi}{40} \text{ FT/SEC}}$$

11) What angular velocity should you attain in order to go 20 MPH? Write your answer in RPM's.

$$V = \omega r \Rightarrow \omega = \frac{V}{r} = \frac{20 \text{ MILES}}{\text{HR}} = \frac{40 \text{ MILES}}{27 \text{ HR} \cdot \text{IN}} \cdot \frac{\text{HR}}{60 \text{ MIN}} \cdot \frac{12 \text{ IN}}{\text{FT}} \cdot \frac{5280 \text{ FT}}{\text{MI}}$$

$$\omega = \frac{(40)(12)(5280) \text{ RAD}}{(27)(60) \text{ MIN}} \times \frac{\text{REV}}{2\pi \text{ RAD}} \Rightarrow \boxed{\omega \approx 249 \text{ RPM's}}$$

Section Quiz Lesson 5 Through 5 4 Answers

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