

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.

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

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

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

Sasha Hu



Section Quiz Lesson 5 Through 5 4 Answers:

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In a world inundated with displays and the cacophony of quick communication, the profound energy and emotional resonance of verbal beauty frequently disappear into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, located within the lyrical pages of **Section Quiz Lesson 5 Through 5 4 Answers**, a fascinating perform of literary splendor that impulses with fresh feelings, lies an unique journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that magical opus guides readers on a psychological odyssey, delicately revealing the latent possible and profound impact embedded within the intricate web of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect their fascinating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g})$ $\Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g})$ $\Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g})$ $\Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l})$ $\Delta h = 1411 \text{ kJ}$ mole
 $\text{C}_2\text{H}_6(\text{g}) + 7 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l})$ $\Delta h = 1560 \text{ kJ}$ mole
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$ $\Delta h = 285 \text{ kJ}$ mole

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = 55.8 \text{ kJ}$ as shown note

that the enthalpy change ΔH for products $\Delta H_{\text{products}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}}$

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