

## Chapter 4

### Trigonometric Functions

#### Section 4.1

#### Check Point Exercises

1. The radian measure of a central angle is the length of the intercepted arc,  $s$ , divided by the circle's radius,  $r$ . The length of the intercepted arc is 42 feet:  $s = 42$  feet. The circle's radius is 12 feet:  $r = 12$  feet. Now use the formula for radian measure to find the radian measure of  $\theta$ .

$$\theta = \frac{s}{r} = \frac{42 \text{ feet}}{12 \text{ feet}} = 3.5$$

Thus, the radian measure of  $\theta$  is 3.5.

2. a.  $60^\circ = 60^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = \frac{60\pi}{180} \text{ radians}$   
 $= \frac{\pi}{3} \text{ radians}$

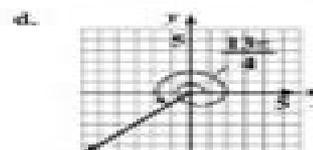
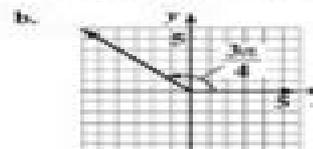
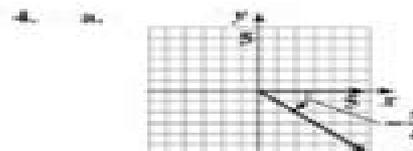
b.  $270^\circ = 270^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = \frac{270\pi}{180} \text{ radians}$   
 $= \frac{3\pi}{2} \text{ radians}$

c.  $-300^\circ = -300^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = -\frac{300\pi}{180} \text{ radians}$   
 $= -\frac{5\pi}{3} \text{ radians}$

3. a.  $\frac{\pi}{4} \text{ radians} = \frac{\pi \text{ radians}}{4} \cdot \frac{180^\circ}{\pi \text{ radians}}$   
 $= \frac{180^\circ}{4} = 45^\circ$

b.  $-\frac{4\pi}{3} \text{ radians} = -\frac{4\pi \text{ radians}}{3} \cdot \frac{180^\circ}{\pi}$   
 $= -\frac{4 \cdot 180^\circ}{3} = -240^\circ$

c.  $6 \text{ radians} = 6 \text{ radians} \cdot \frac{180^\circ}{\pi \text{ radians}}$   
 $= \frac{6 \cdot 180^\circ}{\pi} \approx 343.8^\circ$



5. a. For a  $400^\circ$  angle, subtract  $360^\circ$  to find a positive coterminal angle.  
 $400^\circ - 360^\circ = 40^\circ$

- b. For a  $-135^\circ$  angle, add  $360^\circ$  to find a positive coterminal angle.  
 $-135^\circ + 360^\circ = 225^\circ$

6. a.  $\frac{13\pi}{5} - 2\pi = \frac{13\pi}{5} - \frac{10\pi}{5} = \frac{3\pi}{5}$

b.  $-\frac{\pi}{15} + 2\pi = -\frac{\pi}{15} + \frac{30\pi}{15} = \frac{29\pi}{15}$

# Chapter 4 Trigonometric Functions Answers

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