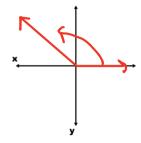
## AFM Unit 3 Quiz 1 Review

1. Convert 135° to radians

2. Convert 
$$-\frac{12\pi}{7}$$
 to degrees

- 3. a. Draw 135° in standard position. b. What quadrant is the terminal side in?
  - c. What is the reference angle?



I

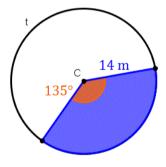
450

4. Find a coterminal angle for  $-\frac{18\pi}{7}$  between 0 and  $2\pi$ 

5. Find a coterminal angle for -225° between 0 and 360°

6. Find the arc length and area of the shaded area below.





- 7. A tire is spinning at 5 rpm. The tire has a radius of 40 inches.
  - a. Find the angular velocity of the tire.

b. Find the linear velocity of the tire.

8. If  $\theta$  is an angle formed by P(-3,5) a point on the terminal side of the angle, find the value of  $\sec \theta$  and  $\sin \theta$ .

$$\sec \theta = -\sqrt{34}$$

$$\sin \theta = 5\sqrt{34}$$