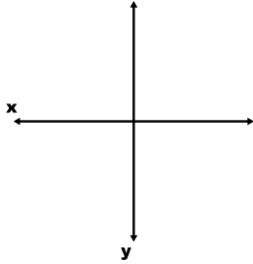


1. Convert 135° to radians

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

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

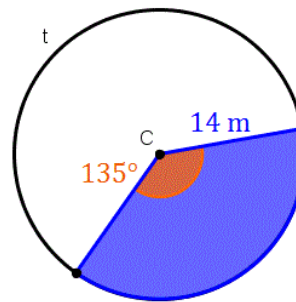
c. What is the reference angle?



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

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