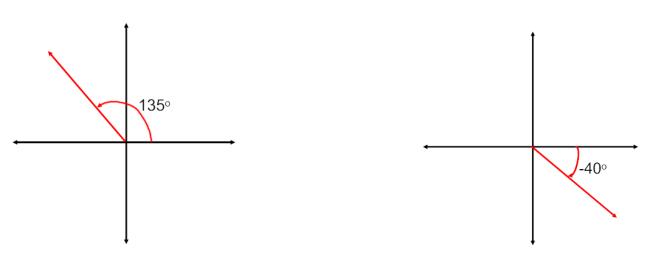
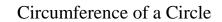
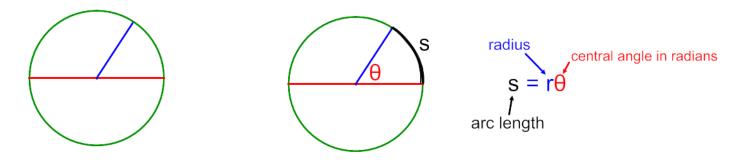
Name_____ Period_____Date_____

Reference Angles



Arc length



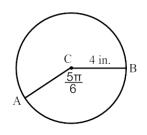


 $C = \pi d$ or $C = 2\pi r$

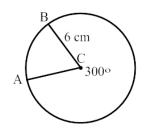
Find the arc length with the given information.

A circle with a diameter of 12 in. and a central angle of $\pi/12$.

A circle with a radius of 8 cm and a central angle of 140° .



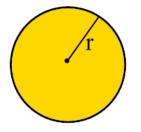
Find the length of AB



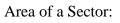
Find the length of AB

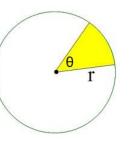
Area of a sector

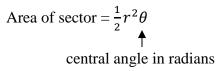
Area of a Circle:



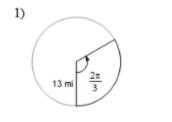
Area of circle = πr^2

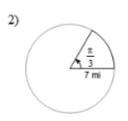


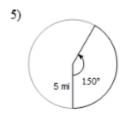


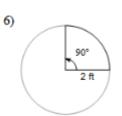


Find the area of the given sector.









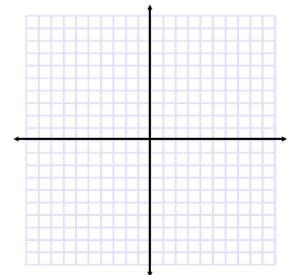
9)
$$r = 13$$
 yd, $\theta = \frac{\pi}{6}$ 10) $r = 17$ ft, $\theta = \frac{4\pi}{3}$

11)
$$r = 9 \text{ cm}, \ \theta = 270^{\circ}$$
 12) $r = 10 \text{ ft}, \ \theta = 90^{\circ}$

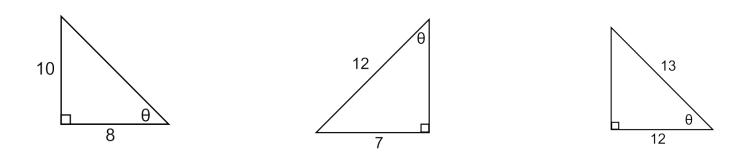
Use the given point on the terminal side of an angle θ in standard position to evaluate the six trigonometric functions of θ .



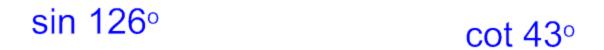
(3, -5)



How do you find the measure of an angle?



Calculator issues:



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

sec 24°



 $\cot \frac{\pi}{4}$

csc 237°

sec 1.58