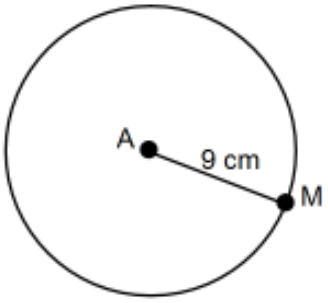
Geo Practice #18 Sec 10-6 Circumference and Arc Length Monday, April 20, 2020

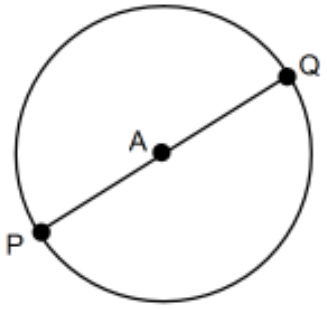
1. Find the circumference of each circle. Give the answer in the form stated for each problem. A is the center of all circles.

a) Leave answer in terms of π.



b) Give answer to the nearest hundredth.

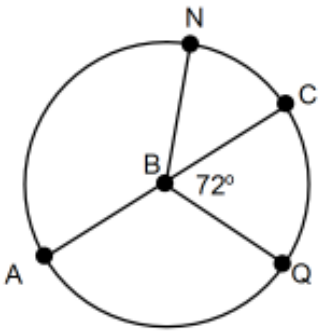
$PQ = 25$ m



2. The circumference of a circle is 500 in. Find the diameter to the nearest hundredth.

3. The circumference of a circle is 96π ft. Find the radius of the circle.

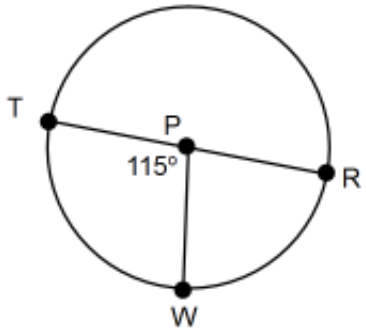
4. Find the indicated arc length to the nearest hundredth in circle B. $\overline{AC}$ is a diameter.



a) length of $\widehat{ANQ} =$

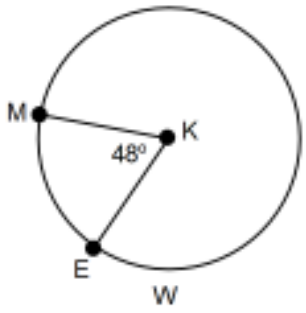
b) length of $\widehat{AQ} =$

5. Find the indicated arc length to the nearest hundredth in circle P. $\overline{TR}$ is a diameter. $PW = 5$ cm.



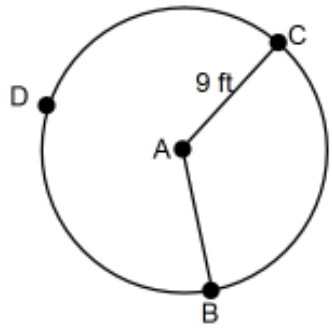
length of $\overset{\frown}{RW} =$

6. Find the radius of circle K if the length of $\overset{\frown}{EM} = 100$ in. Round to the nearest tenth.



Radius =

7. Find the measure of $\angle CAB$ if the measure of $\overset{\frown}{CB} = 20$ ft. Round to the nearest tenth of a degree.



$m\angle CAB =$