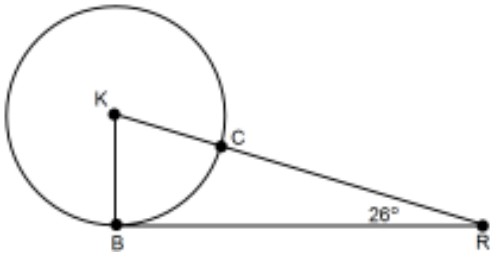
Geo Weekly Review: 4/27 to 4/30 Friday, May 1, 2020

Round answers to the nearest hundredth unless noted otherwise. The center in each circle is pt K.
For 1-4 assume that lines that appear tangent to a circle are actually tangent.

1.



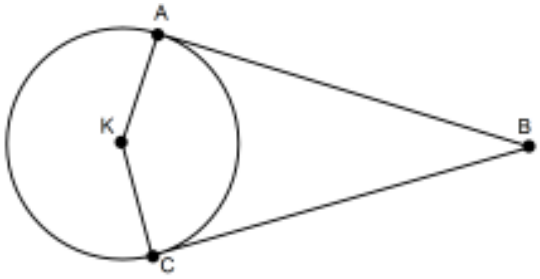
a) Find the measure of Central Angle $\angle BKC$.

$m\angle BKC =$

b) Find the length of $\overline{BR}$ if the radius of $\odot K = 7$ and $CR = 15$.

$BR =$

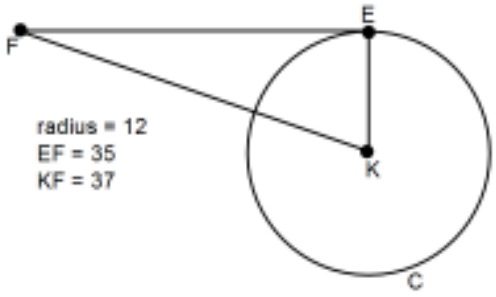
2.



Find the measure of Central Angle $\angle AKC$ if $m\angle ABC = 42°$

$m\angle AKC =$

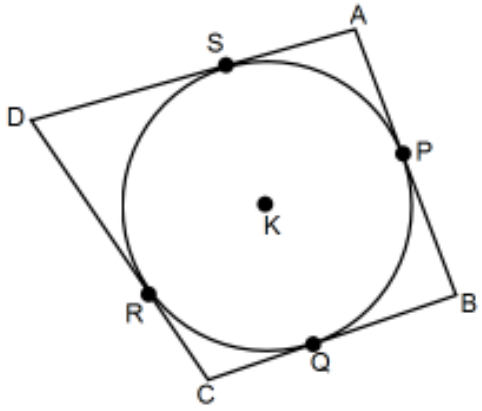
3. Use the given information to determine if $\overline{EF}$ tangent to $\odot K$. Give a reason.



Is $\overline{EF}$ tangent?

Why?

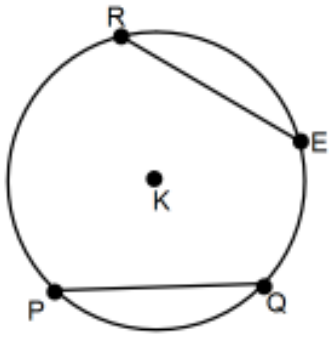
4. Find the perimeter of ABCD.
Pts P, Q, R, & S are pts of tangency.



$CD = 17, SA = 6, BP = 8, CQ = 5$

Perimeter =

5.

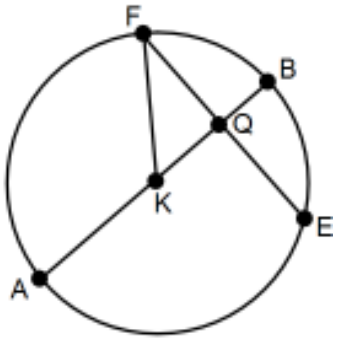


$\overline{RE} \cong \overline{PQ}$ $\quad m\widehat{QE} = 65°$ $\quad m\widehat{PQ} = 85°$

Find the measure of $\widehat{PR}$.

$m\widehat{PR} =$

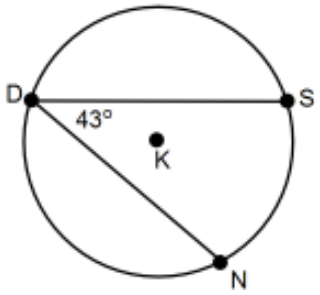
6.



Diameter $\overline{AB}$ is perpendicular to chord $\overline{EF}$ at pt Q. If the radius of the circle is 13 and $EF = 24$, find the length of $\overline{KQ}$.

$KQ =$

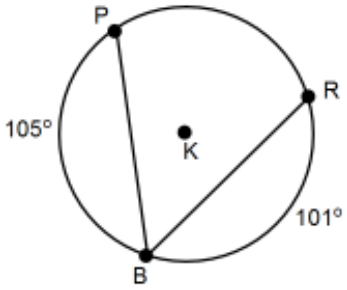
7.



Find the measure of $\widehat{SN}$

$m\widehat{SN} =$

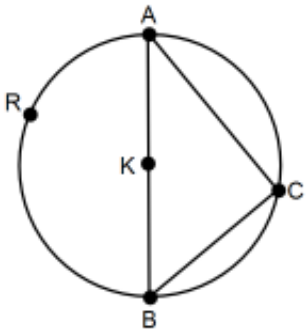
8.



Find the measure of inscribed $\angle PBR$.

$m\angle PBR =$

9. $\overline{AB}$ is a diameter.



Find the measure of $\angle ACB$

$m\angle ACB =$