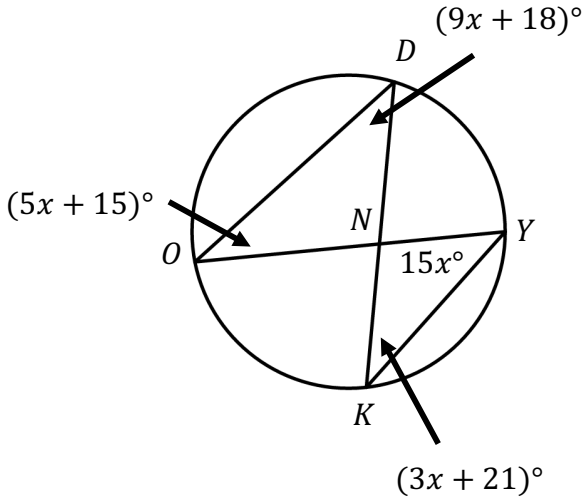
Name _____ Date_____

Circles – Part 2
Arcs and Inscribed Angles – Part 2
Independent Practice

1. Consider the circle on the right.

   Part A: Determine the value of x.

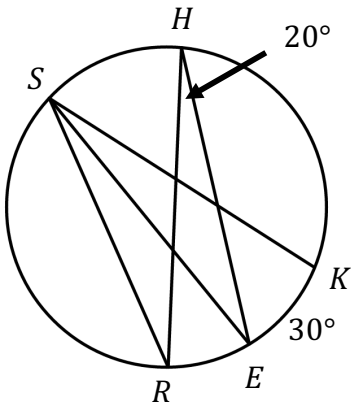


   Part B: Determine $m\angle YNK$

   Ⓐ $105°$
   Ⓑ $122.5°$
   Ⓒ $126°$
   Ⓓ $120°$

2. Consider the circle on the right, where $m\angle RHE = 20°$ and $m\widehat{EK} = 30°$

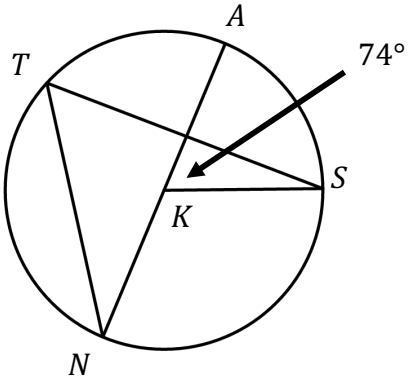
   Determine $m\angle RSK$.



   Ⓐ $25°$
   Ⓑ $35°$
   Ⓒ $50°$
   Ⓓ $70°$

3. Consider circle K on the right, where $m\angle SKA = 74°$.

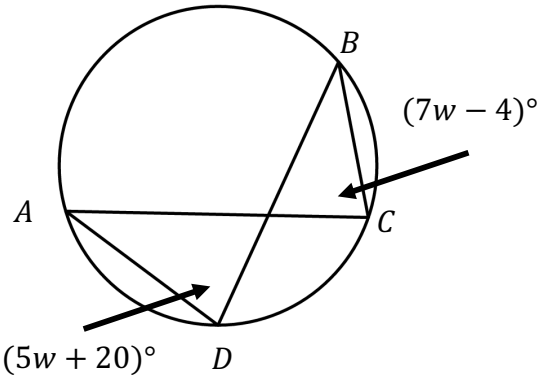
   Determine $m\angle NTS$.



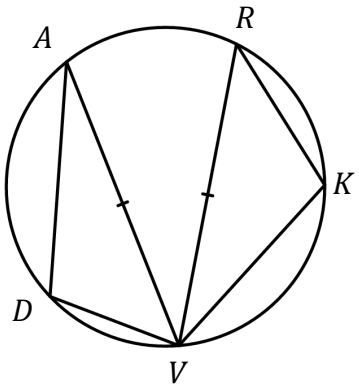
   Ⓐ $37°$
   Ⓑ $74°$
   Ⓒ $53°$
   Ⓓ $106°$

4. Consider the circle on the right.

   Determine $m\widehat{AB}$.



5. Consider the following figure where $\overline{VA} \cong \overline{RV}$.



   Which of the following statements is correct?

   Ⓐ $\angle VDA \cong \angle VKR$
   Ⓑ $\widehat{RKV} = \widehat{ARK}$
   Ⓒ $m\angle VKR = \widehat{VKR}$
   Ⓓ $\angle DAV \cong \angle KRV$