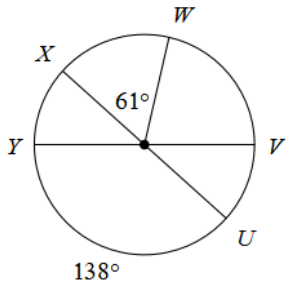
Geometry Name_____

Circles Properties Review

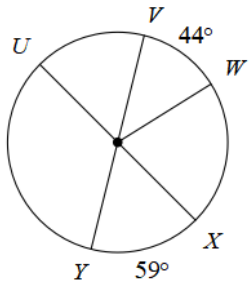
Date_____ Period____

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\overset{\frown}{WV}$

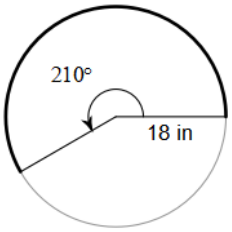


2) $m\overset{\frown}{XYV}$



Find the length of each arc.

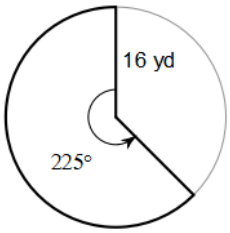
3)



3b) The arc length of a circle is $24\pi\ in$. The central angle that formed the arc is 270°. What is the length of the radius?

Find the area of each sector.

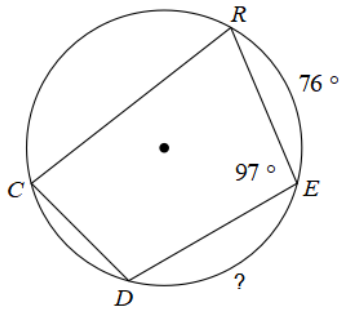
4)



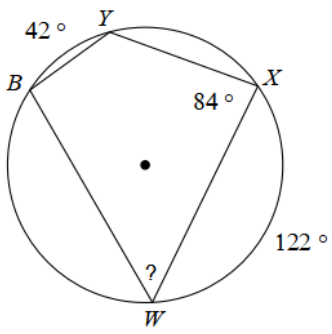
4b) The sector area of a circle is $16\pi\ in$. The central angle that formed the arc is 90°. What is the length of the radius?

Find the measure of the arc or angle indicated.

5)

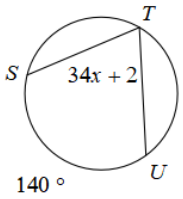


6)

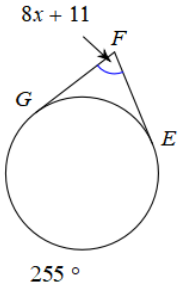


Solve for *x*. Assume that lines which appear tangent are tangent.

7)

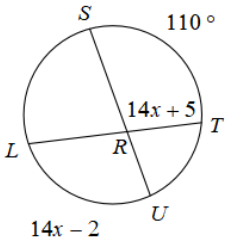


8)

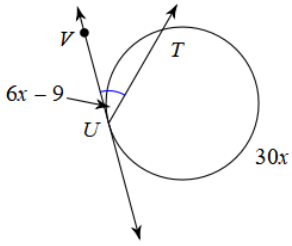


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

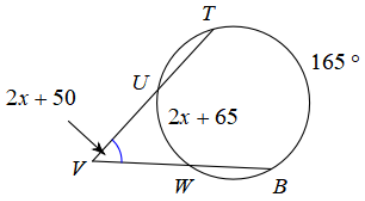
9) Find $m\angle SRT$



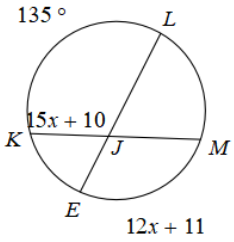
10) Find $m\angle TUV$



11) Find $m\angle TVB$

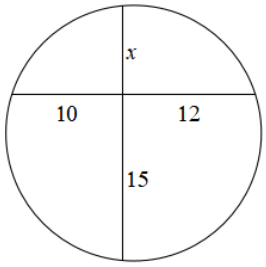


12) Find $m\angle KJL$

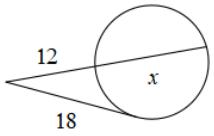


Solve for *x*. Assume that lines which appear tangent are tangent.

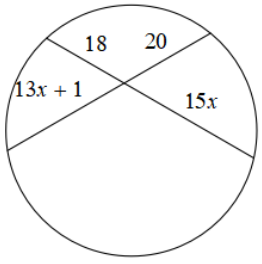
13)



14)



15)



16)