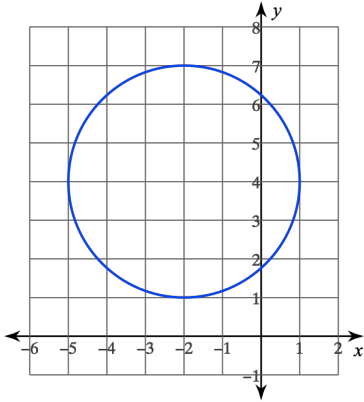


1. Write the equation of this circle.

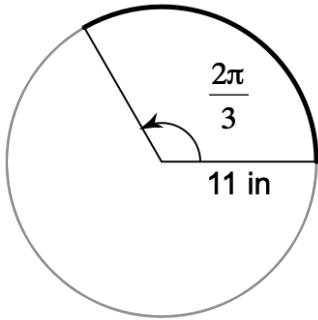


2. Write the equation of a circle whose diameter has endpoints  $(1,13)$  and  $(-5,11)$ .

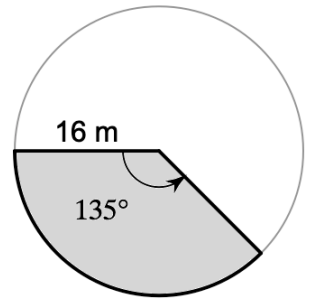
C-B4

Be prepared for any of these 4 topics: arc length in degrees, arc length in radians, sector area in degrees, sector area in radians. See previous HW handouts for additional practice for these.

3. Find the exact arc length.

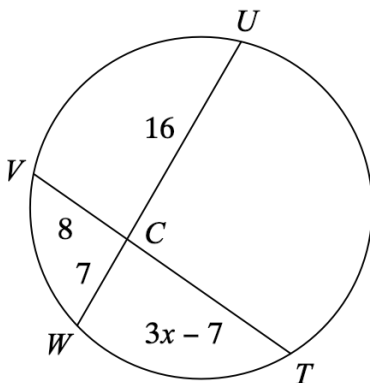


4. Find the shaded area to the nearest hundredth  $m^2$ .

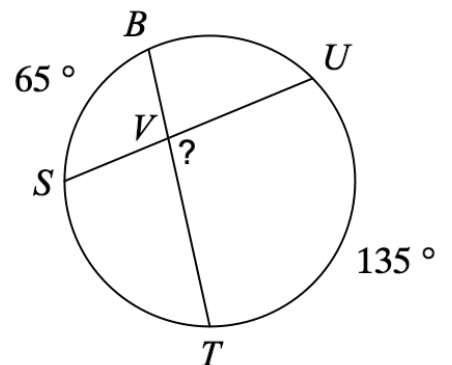


C-A2b

5. Find the length of  $\overline{VT}$

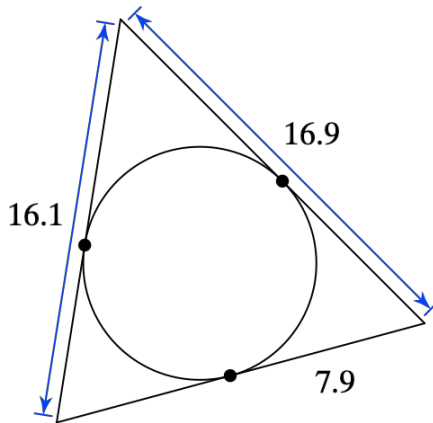


6. Find the measure of  $\angle UVT$

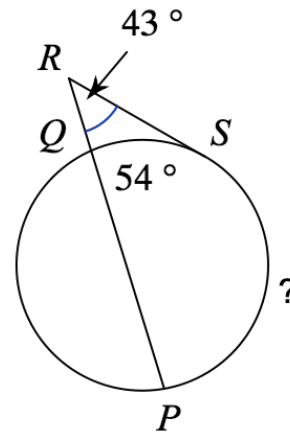


C-A2c: Assume all segments that appear tangent to the circle, are.

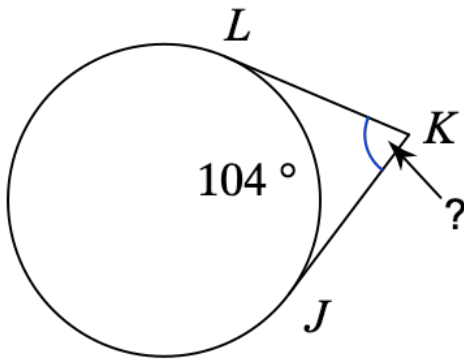
7. Find the perimeter of the triangle.



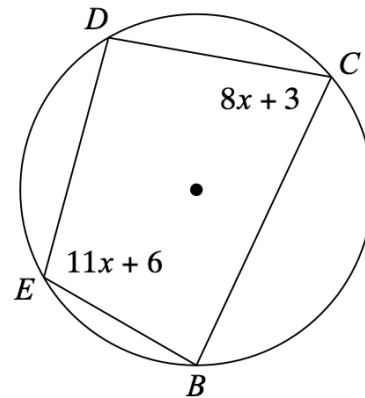
8. Find the measure of  $\widehat{SP}$



9. Find the measure of  $\angle K$



10. Find the measure of  $\angle DEB$



C-A3

11. City planners are deciding where to put a new school. There are 3 separate neighborhoods/apartments the school should serve that are spread out around the area. In order for the school to be equidistant to each neighborhood, decide whether the planners should locate the circumcenter or the incenter, and justify your reasoning.

12. A group of civil engineers is deciding whether to put an urban fountain. It will be placed somewhere in a triangular park that is bordered by three streets. In order for the fountain to be equidistant to each street, , decide whether the planners should locate the circumcenter or the incenter, and justify your reasoning.