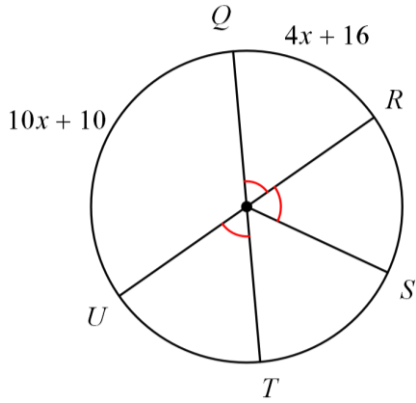


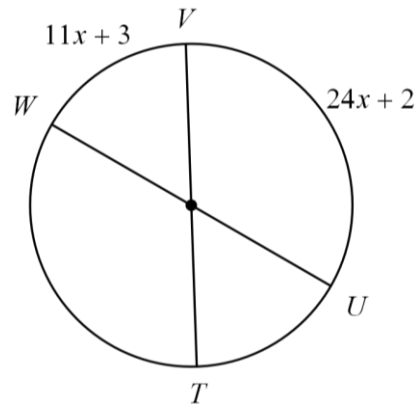
9.2 CHORDS & ARCS

Set up and solve an equation to find the value of x . Then find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

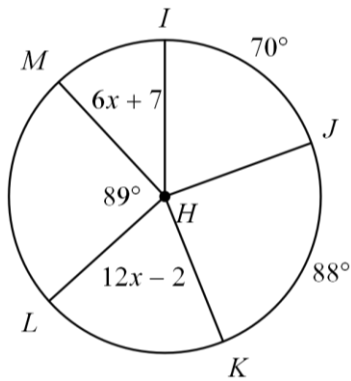
1. $m\widehat{ST}$



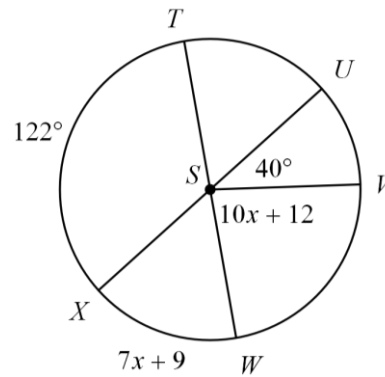
2. $m\widehat{WVT}$



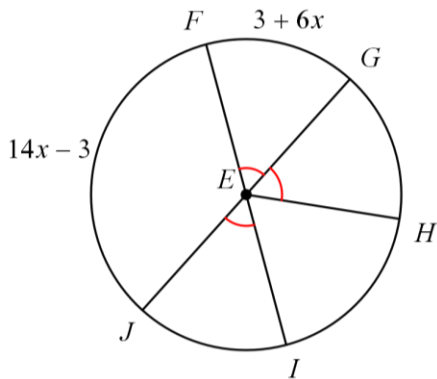
3. $m\angle KHL$



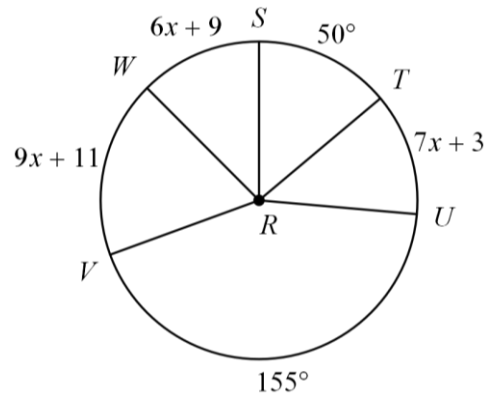
4. $m\angle WSX$



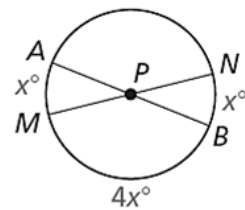
5. $m\widehat{HI}$



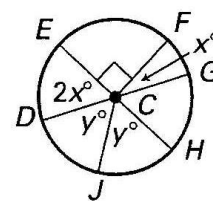
6. $m\widehat{VWS}$



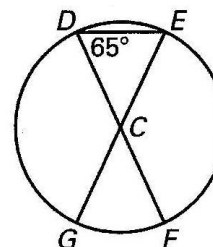
7. Your friend claims that there is not enough information given to find the value of x . If your friend correct? Explain your reasoning.



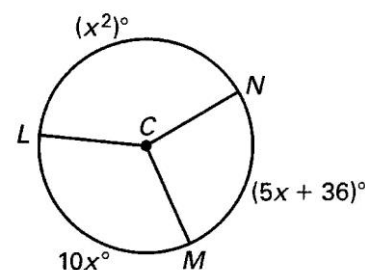
8. Set up and solve equations to find the values of x and y . Then find $m\widehat{G}$.



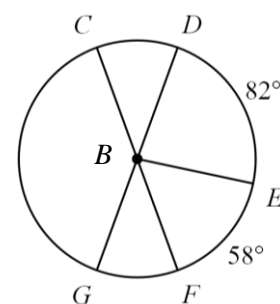
9. In the diagram shown at the right, find $m\angle GCF$, $m\widehat{DE}$, $m\widehat{EF}$, and $m\angle DCG$ if C is the center of the circle.



10. Set up and solve a quadratic equation and find the value of x , that makes sense. Then find $m\angle LCN$, $m\widehat{MN}$, and $m\widehat{LMN}$.



11. In circle B , the $m\angle CBD = 2x^2 + 11x$. Set up and solve an equation and find the value of x , that makes sense.



12. In circle D , the $m\widehat{EG} = 36x^2 - 12x$. Set up and solve an equation to find the value of x that makes sense.

