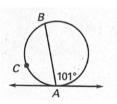
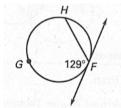
Find the indicated arc measure.

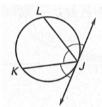
1. *mAB*



 $2. m\widehat{FH}$

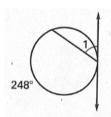


3. $m\widehat{JKL}$

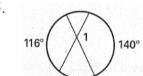


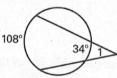
Find *m*∠1

4.

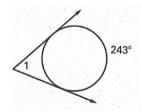


5.





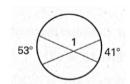
7.



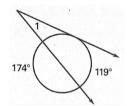
8.



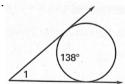
9.



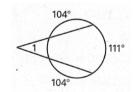
10.



11.

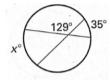


12.

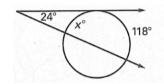


Find the value of *x*.

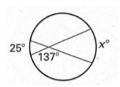
13.



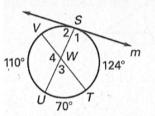
14.



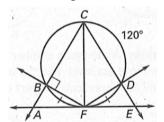
15.



16. In the diagram shown, *m* is tangent to the circle at the point S. Find the measures of all numbered angles



Use the diagram shown to find the measure of the angle.



17. *m∠CAF*

18. *m∠AFB*

19. *m∠CEF*

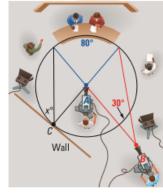
20. *m∠CFB*

21. *m∠DCF*

22. *m∠BCD*

23. In the diagram at the right, television cameras are positioned at A, B and C to record that happens on stage. The stage is an arc of \bigcirc A.

a.) Find the $m \angle A$, $m \angle B$ and $m \angle C$.



b.) The wall is tangent to the circle. Find x without using the measure of $\angle C$.

c.) You would like Camera B to have a 30° view of the stage. Should you move the camera closer or further away from the stage? Explain.