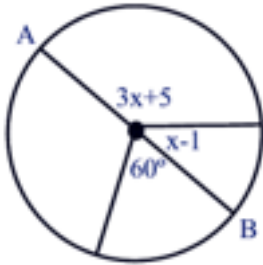
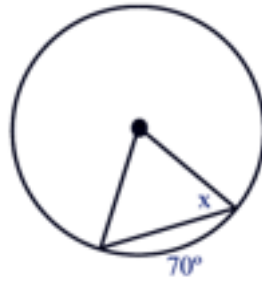


Find x.

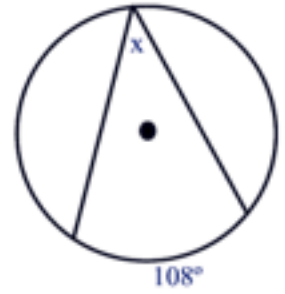
1.



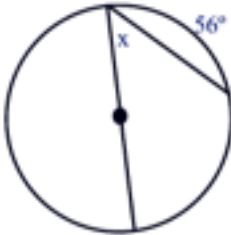
2.



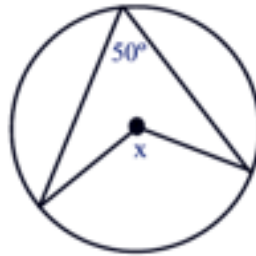
3.



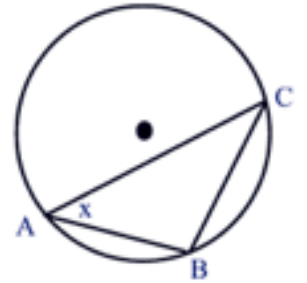
4.



5.

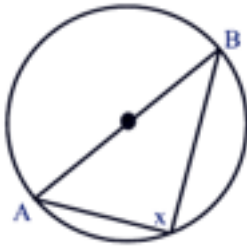


6.

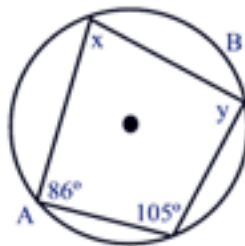


$$m\widehat{AB} : m\widehat{BC} : m\widehat{AC} = 3 : 4 : 8$$

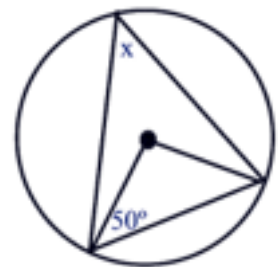
7.



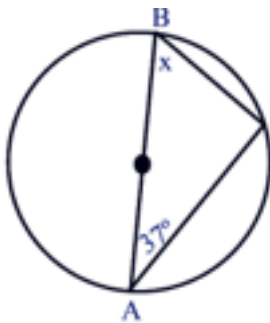
8.



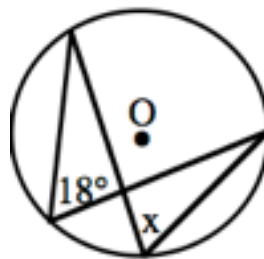
9.



10.



11.



12. Find all angles except 8 and 9.

$$m\widehat{AU} = x; m\widehat{UG} = 2x + 20; m\widehat{GN} = 3x - 40; m\widehat{NA} = 4x - 20$$

