

LESSON
6.3

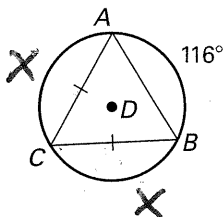
Exercise
Set A



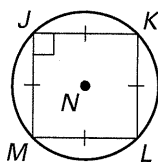
- MM2G3a** Understand and use properties of chords, tangents, and secants as an application of triangle similarity.
- MM2G3d** Justify measurements and relationships in circles using geometric and algebraic properties.

Find the measure of the given arc or chord.

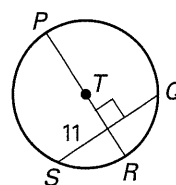
1. $m\widehat{BC}$



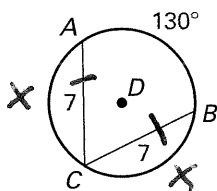
2. $m\widehat{LM}$



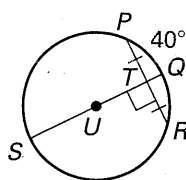
3. \overline{QS}



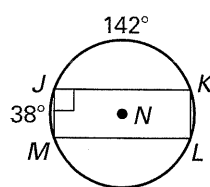
4. $m\widehat{AC}$



5. $m\widehat{PQR}$

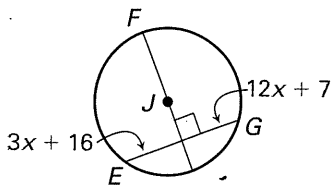


6. $m\widehat{KLM}$

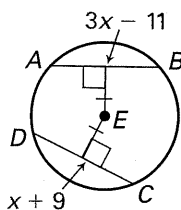


Find the value of x .

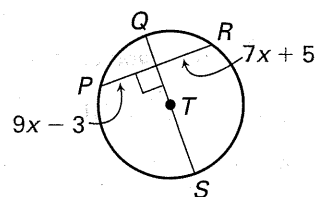
7.



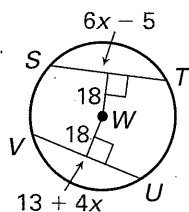
8.



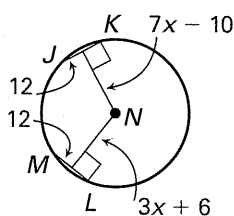
9.



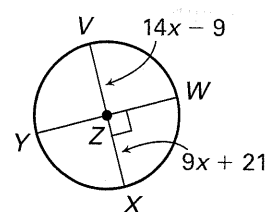
10.



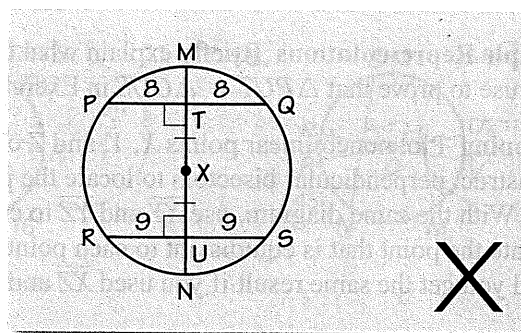
11.



12.



13. **Error Analysis** Explain what is wrong with the diagram of $\odot X$.



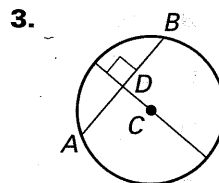
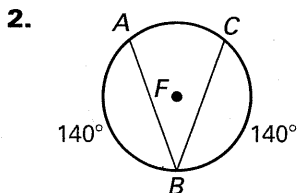
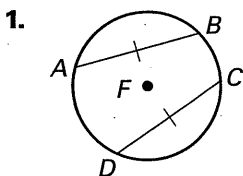
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Exercise Set B



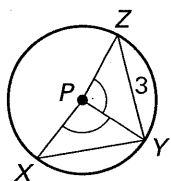
- MM2G3a** Understand and use properties of chords, tangents, and secants as an application of triangle similarity.
- MM2G3d** Justify measurements and relationships in circles using geometric and algebraic properties.

What can you conclude about the diagram? State a theorem that justifies your answer.

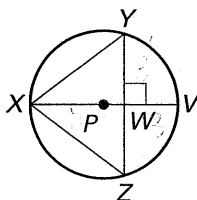


P is the center of the circle. Use the given information to find *XY*.

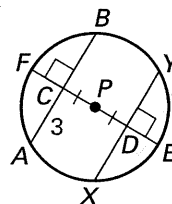
4. $ZY = 3$



5. $ZY = 6, XW = 4$



6. $CA = 3$



Find the measure of \widehat{MN} .

