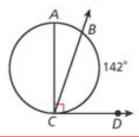
Angle Relationships in Circles



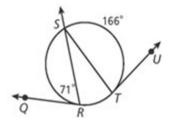
Find each measure.

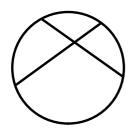
A m∠BCD

B mABC



 $m \angle STU$ $m\widehat{SR}$



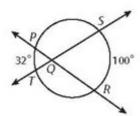


Theorem 12-5-2

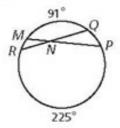
THEOREM	HYPOTHESIS	CONCLUSION
If two secants or chords intersect in the interior of a circle, then the measure of each angle formed is half the sum of the measures of its intercepted arcs.	Chords \overline{AD} and \overline{BC} intersect at E .	

Finding Angle Measures Inside a Circle
Find each angle measure.

m∠SQR

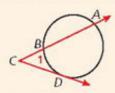


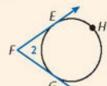
2b. m∠RNM

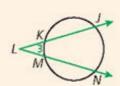


Theorem 12-5-3

If a tangent and a secant, two tangents, or two secants intersect in the exterior of a circle, then the measure of the angle formed is half the difference of the measures of its intercepted arcs.



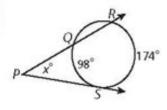




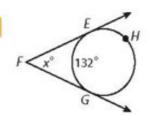
3 Finding Measures Using Tangents and Secants

Find the value of x.

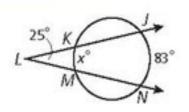
A



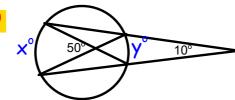
B



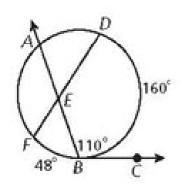
C

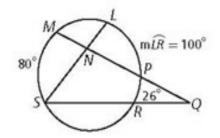


D



5 Finding Arc Measures





Find m \widehat{LP} .

Formulas for Today:

