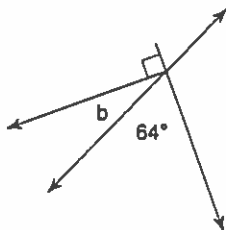


Review of Special Angle Pairs

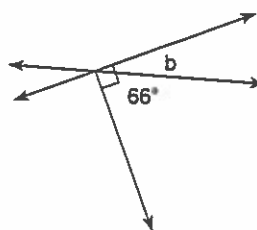
Date _____ Period _____

These are Complementary, Supplementary, and Vertical angle pairs from the First Marking Period.
Find the measure of angle b .

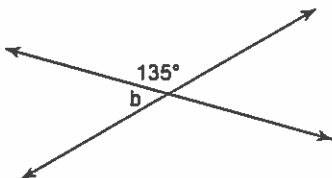
1)



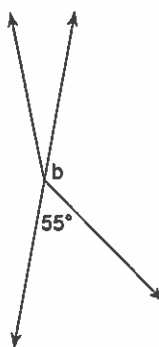
2)



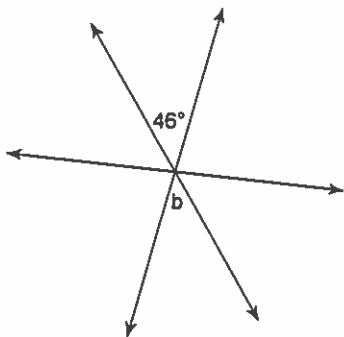
3)



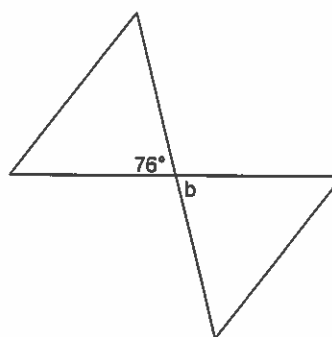
4)



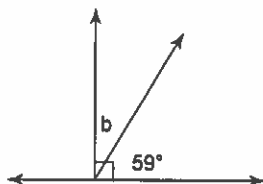
5)



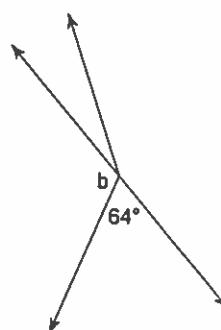
6)



7)

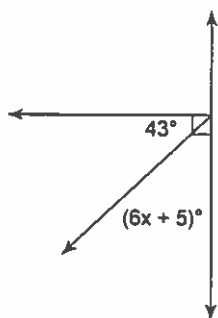


8)

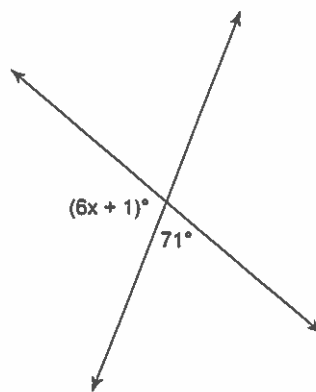


Find the value of x .

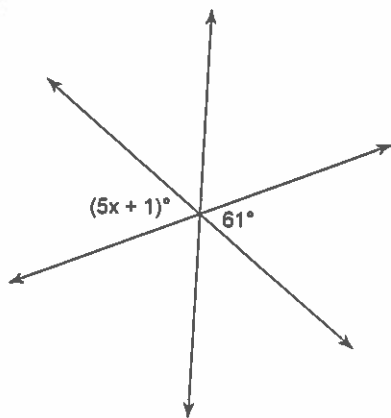
9)



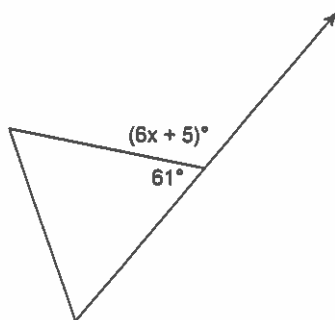
10)



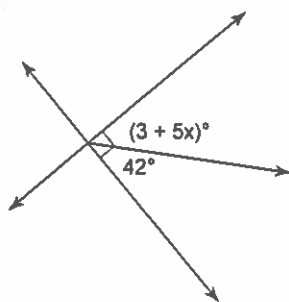
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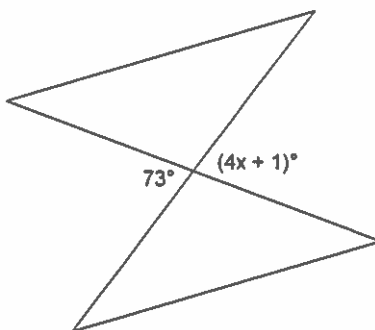
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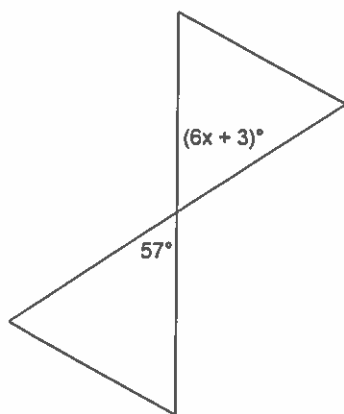
13)



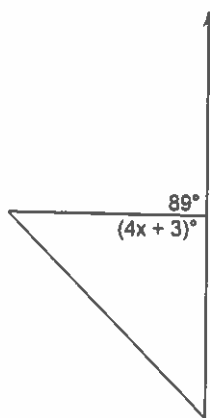
14)



15)



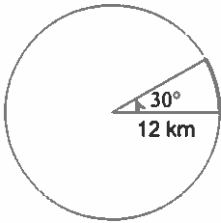
16)



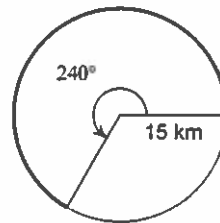
Arc Lengths 1

Find the length of each arc.

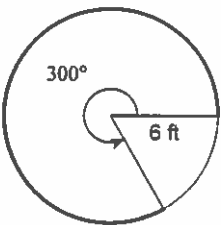
1)



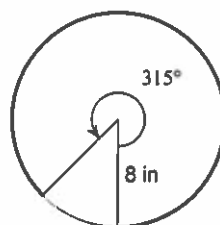
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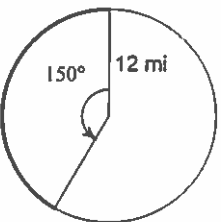
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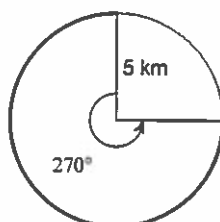
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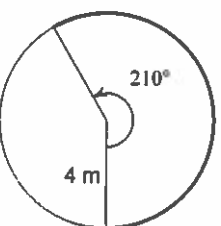
5)



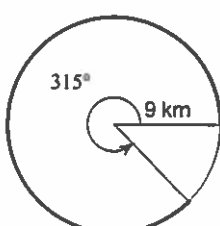
6)



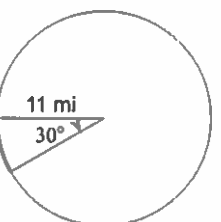
7)



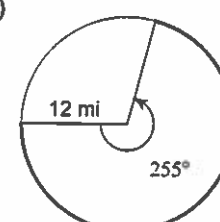
8)



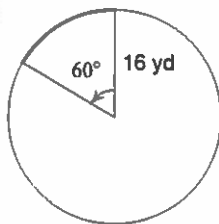
9)



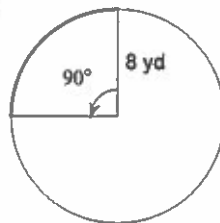
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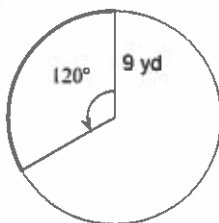
11)



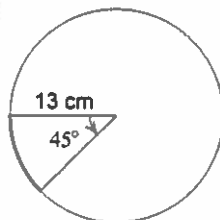
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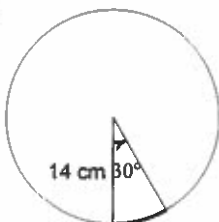
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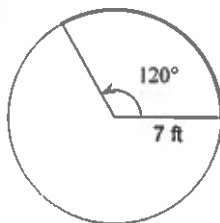
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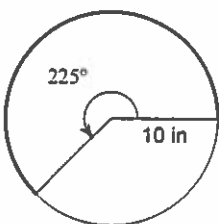
15)



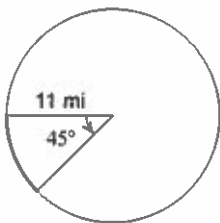
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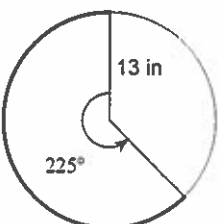
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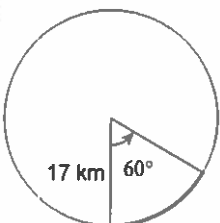
18)



19)



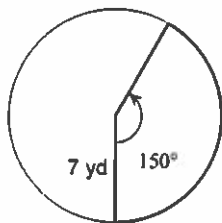
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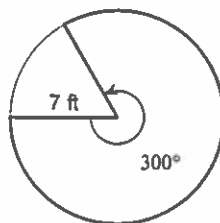
Sector Area

Find the area of each sector.

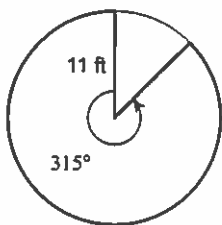
1)



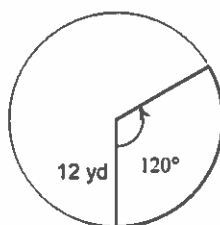
2)



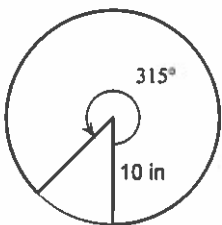
3)



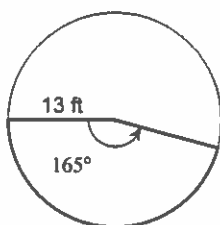
4)



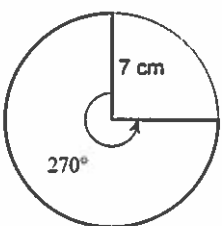
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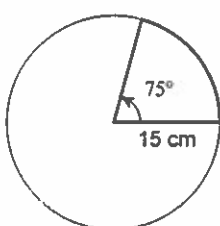
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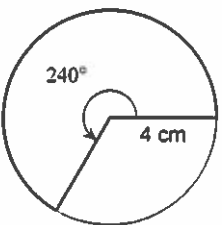
7)



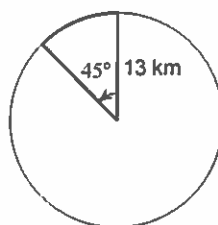
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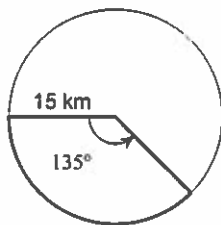
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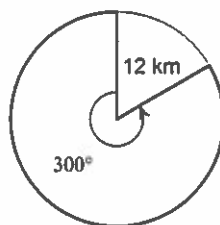
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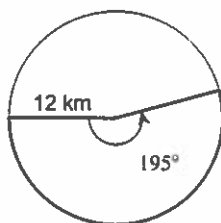
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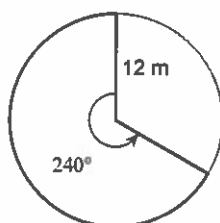
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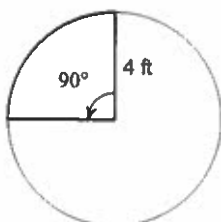
13)



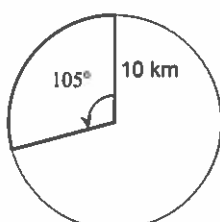
14)



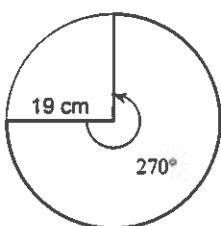
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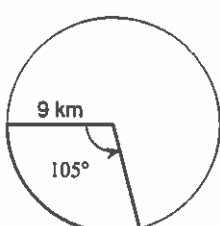
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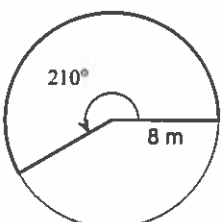
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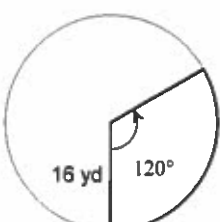
18)



19)



20)



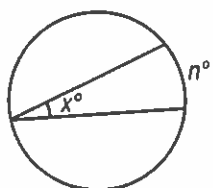
GEOMETRY FORMULA SHEET – PAGE 1

Formulas that you may need to solve questions on this exam are found below.

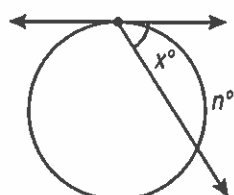
You may use calculator π or the number 3.14.

Properties of Circles

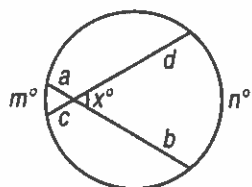
Angle measure is represented by x . Arc measure is represented by m and n . Lengths are given by a , b , c , and d .

*Inscribed Angle*

$$x = \frac{1}{2}n$$

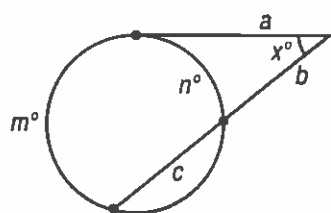
*Tangent-Chord*

$$x = \frac{1}{2}n$$

*2 Chords*

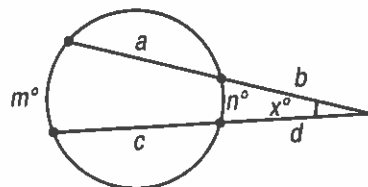
$$a \cdot b = c \cdot d$$

$$x = \frac{1}{2}(m + n)$$

*Tangent-Secant*

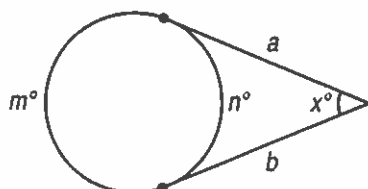
$$a^2 = b(b + c)$$

$$x = \frac{1}{2}(m - n)$$

*2 Secants*

$$b(a + b) = d(c + d)$$

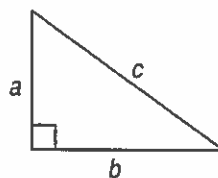
$$x = \frac{1}{2}(m - n)$$

*2 Tangents*

$$a = b$$

$$x = \frac{1}{2}(m - n)$$

Right Triangle Formulas

*Pythagorean Theorem:*

If a right triangle has legs with measures a and b and hypotenuse with measure c , then...

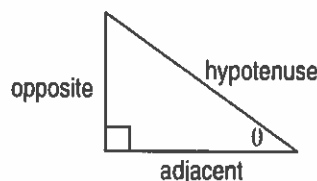
$$a^2 + b^2 = c^2$$

Trigonometric Ratios:

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$



Coordinate Geometry Properties

$$\text{Distance Formula: } d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\text{Midpoint: } \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\text{Slope: } m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\text{Point-Slope Formula: } (y - y_1) = m(x - x_1)$$

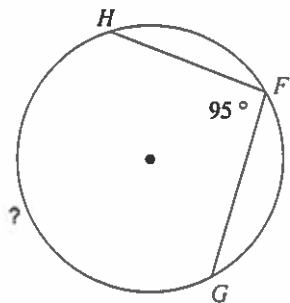
$$\text{Slope Intercept Formula: } y = mx + b$$

$$\text{Standard Equation of a Line: } Ax + By = C$$

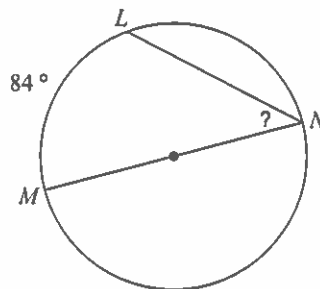
Inscribed Angles

Find the measure of the arc or angle indicated.

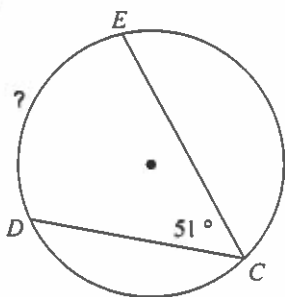
1)



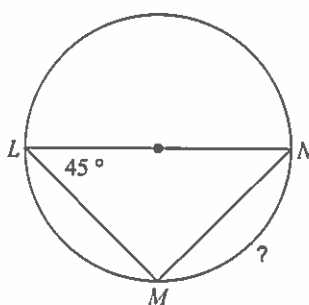
2)



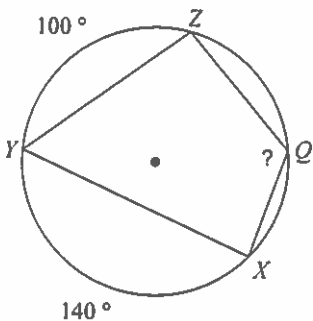
3)



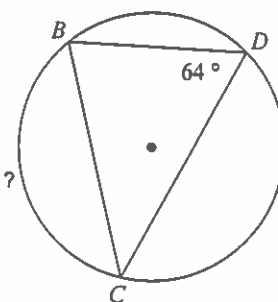
4)



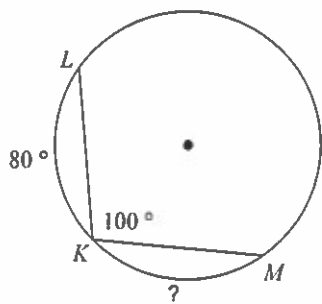
5)



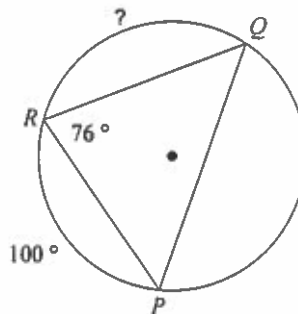
6)



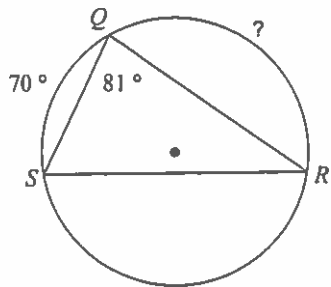
7)



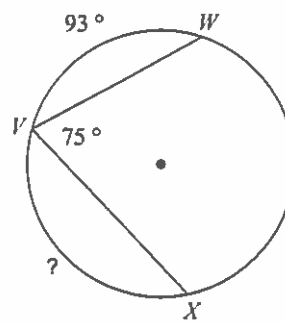
8)



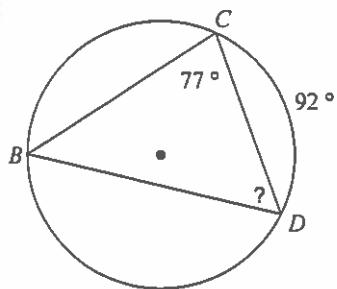
9)



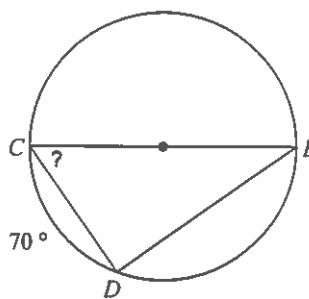
10)



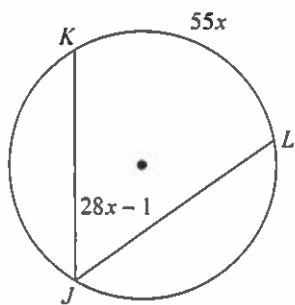
11)



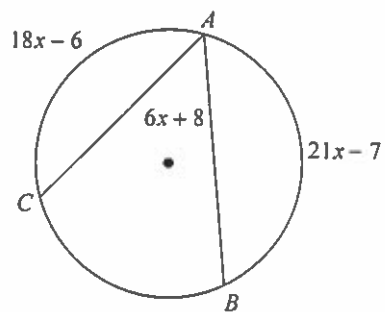
12)



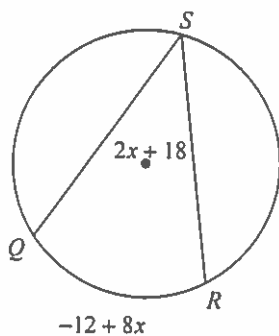
13) Find $m\angle KJL$



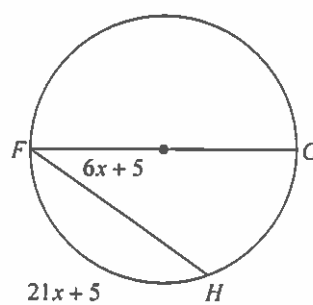
14) Find $m\angle BAC$



15) Find $m\angle RSQ$

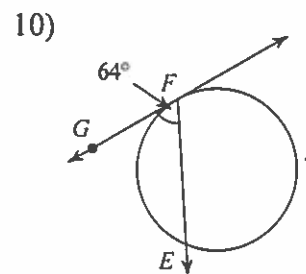
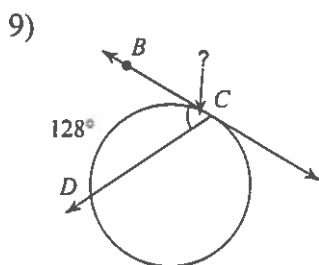
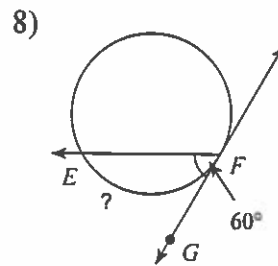
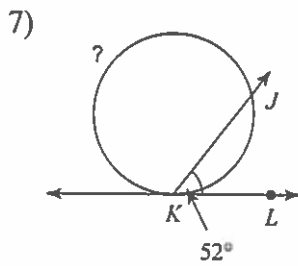
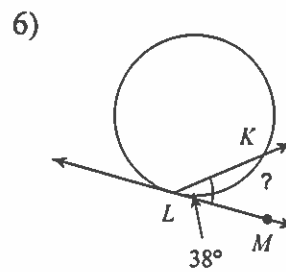
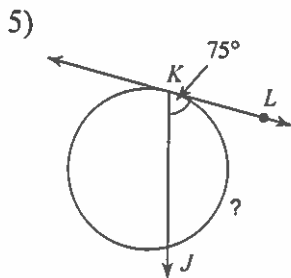
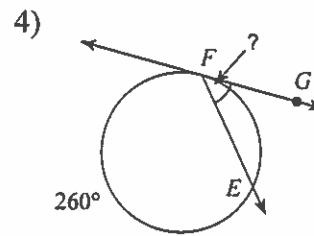
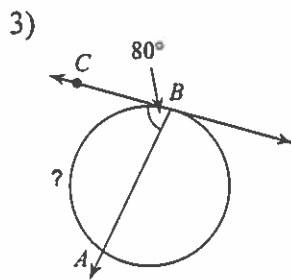
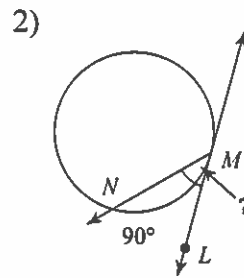
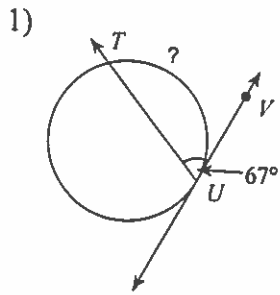


16) Find $m\widehat{FG}$

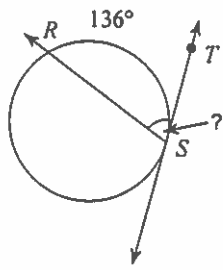


Tangent-Chord Angles

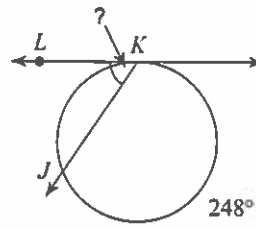
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.



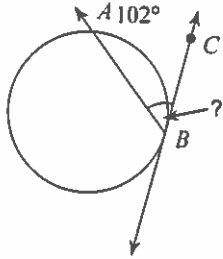
11)



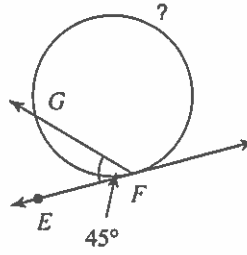
12)



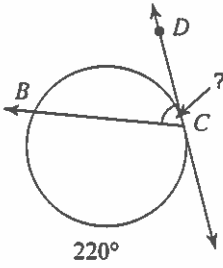
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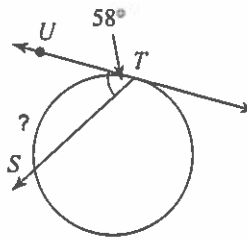
14)



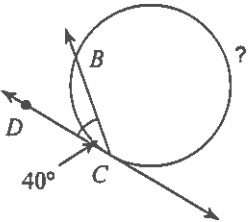
15)



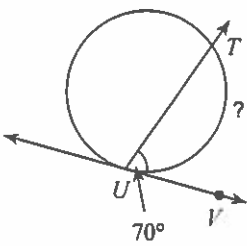
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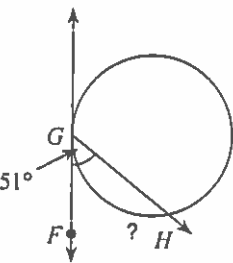
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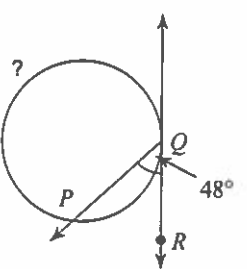
18)



19)



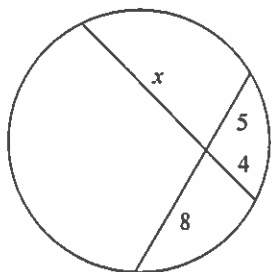
20)



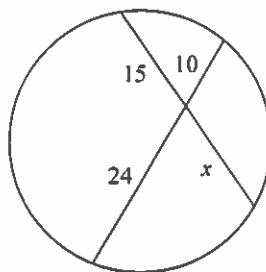
Chord-Chord Segments

Solve for x . Assume that lines which appear tangent are tangent.

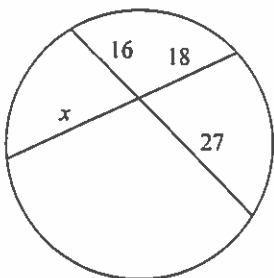
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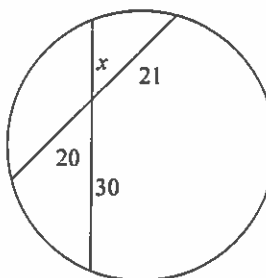
2)



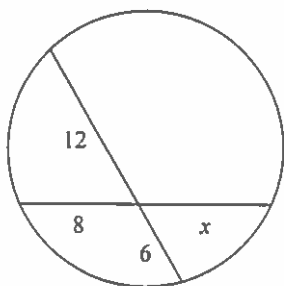
3)



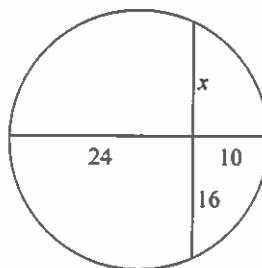
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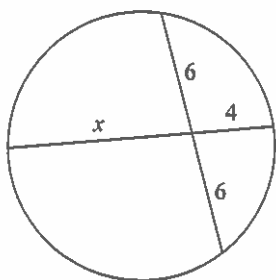
5)



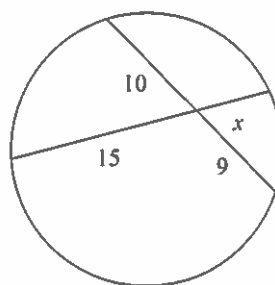
6)



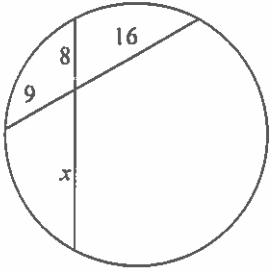
7)



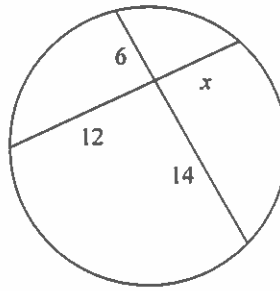
8)



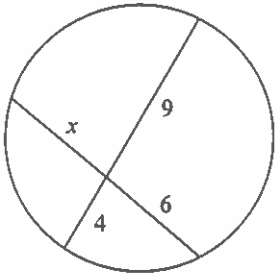
9)



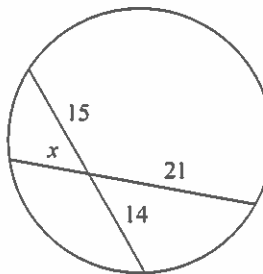
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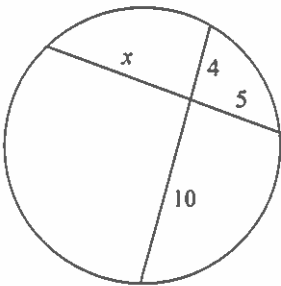
11)



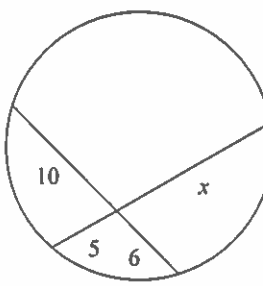
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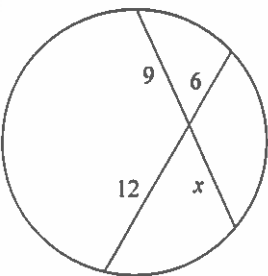
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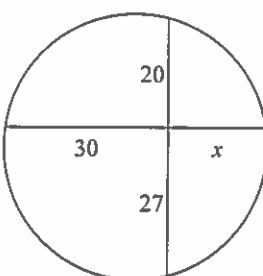
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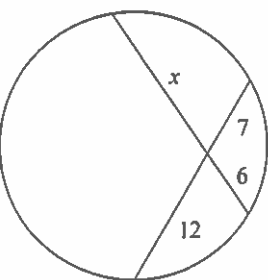
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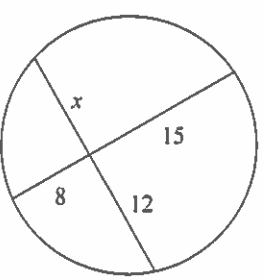
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17)

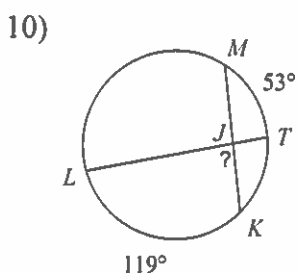
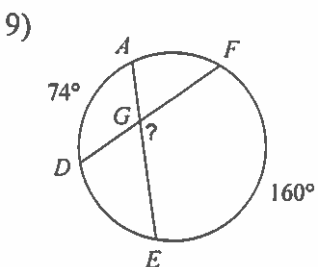
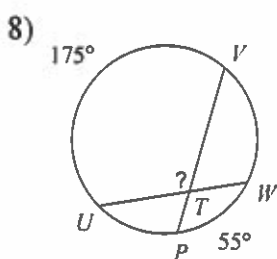
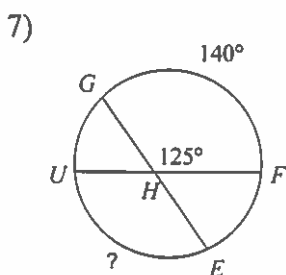
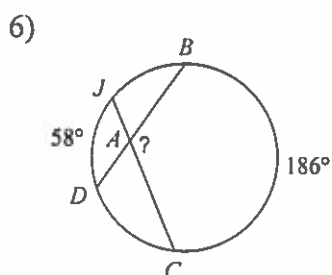
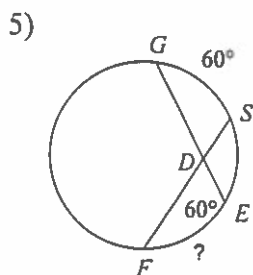
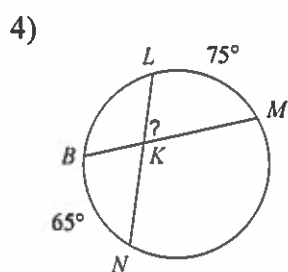
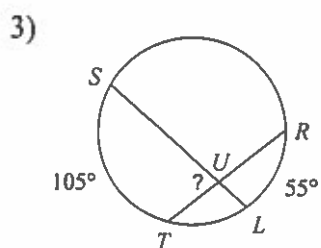
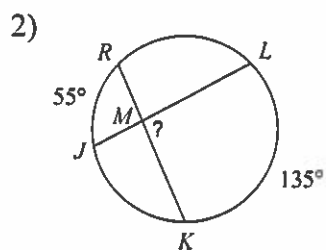
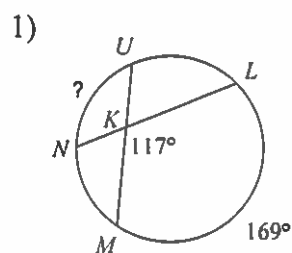


18)

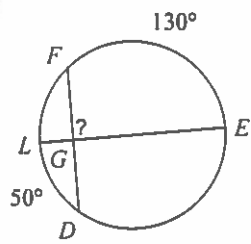


Chord-Chord Angles

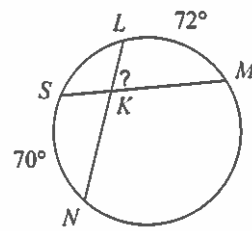
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.



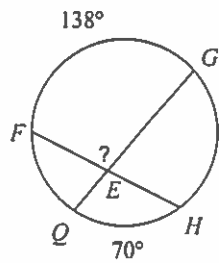
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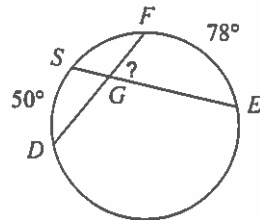
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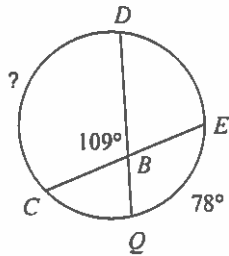
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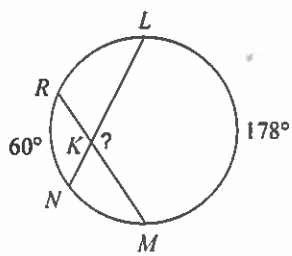
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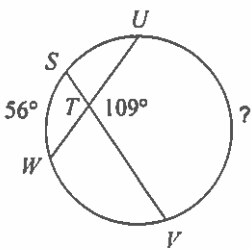
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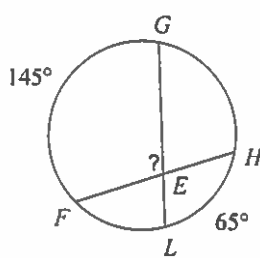
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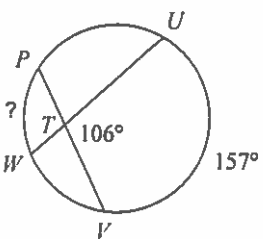
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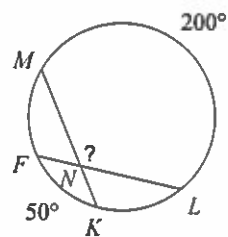
18)



19)

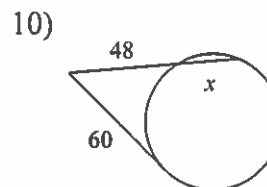
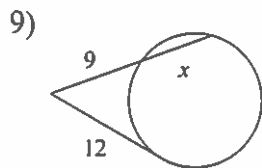
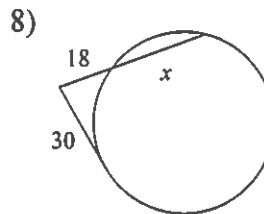
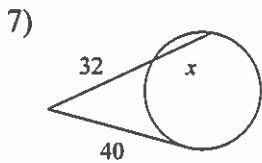
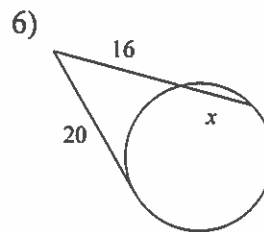
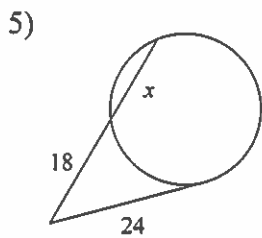
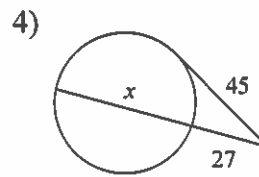
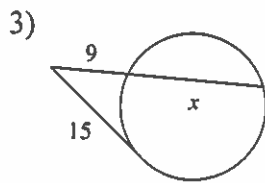
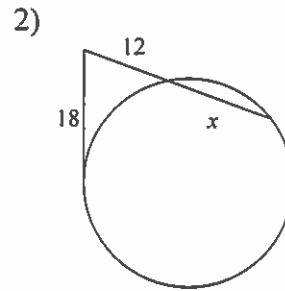
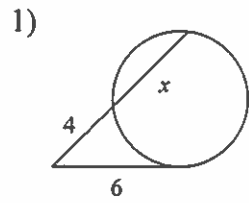


20)



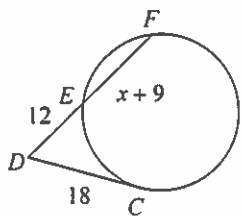
Tangent-Secant Segments

Solve for x . Assume that lines which appear tangent are tangent.

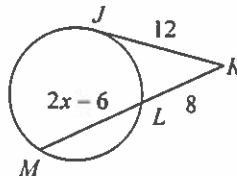


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

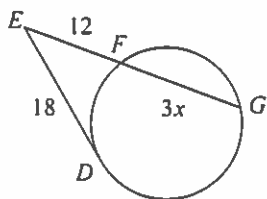
11) Find DF



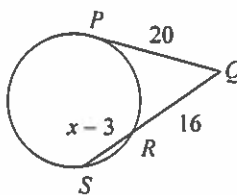
12) Find LM



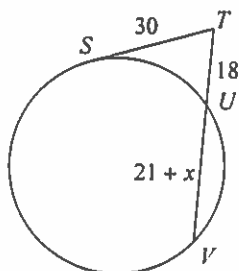
13) Find EG



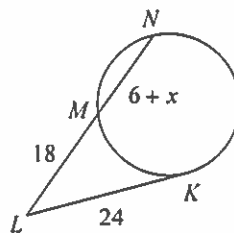
14) Find QS



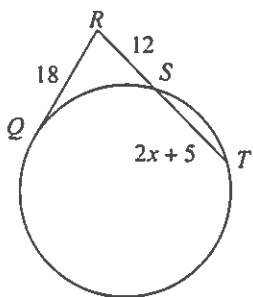
15) Find UV



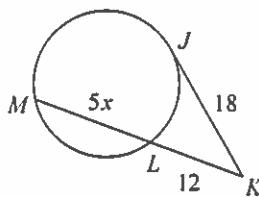
16) Find MN



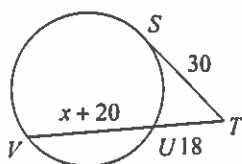
17) Find RT



18) Find LM



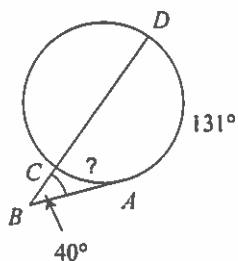
19) Find UV



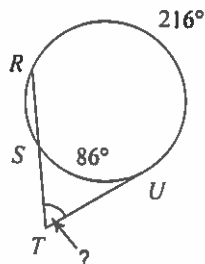
Tangent-Secant Angles

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

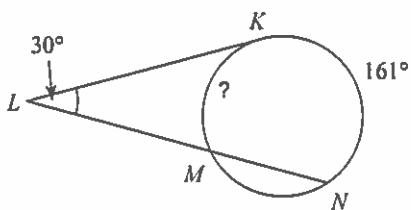
1)



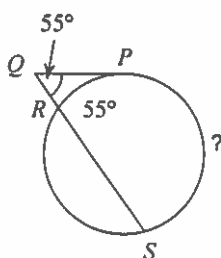
2)



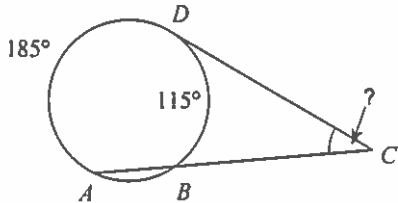
3)



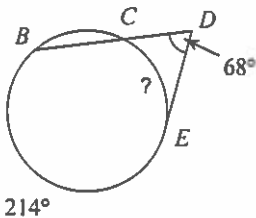
4)



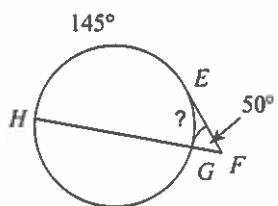
5)



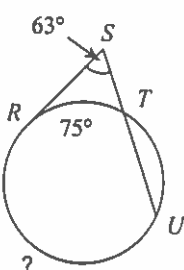
6)



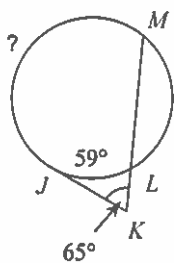
7)



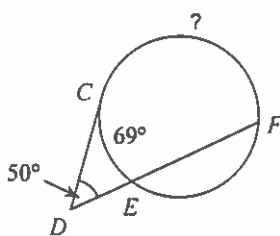
8)



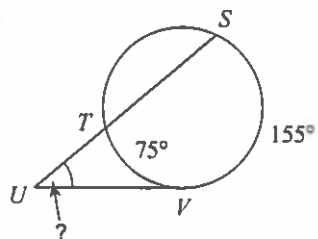
9)



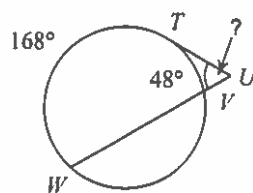
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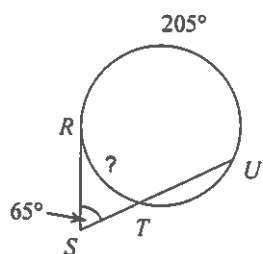
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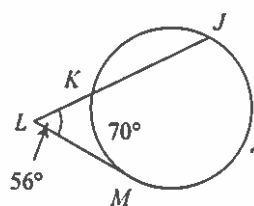
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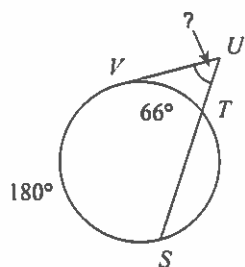
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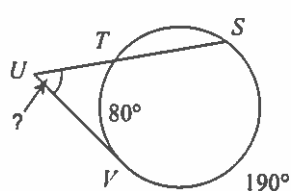
14)



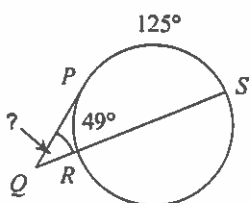
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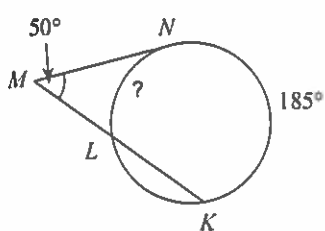
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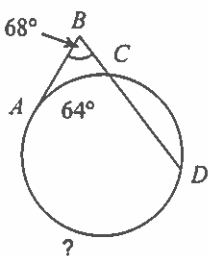
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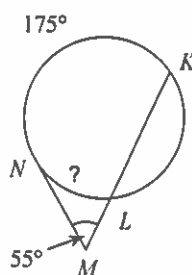
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19)

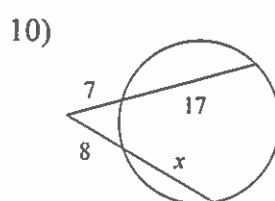
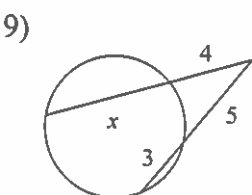
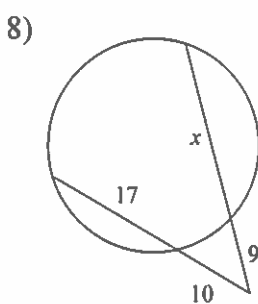
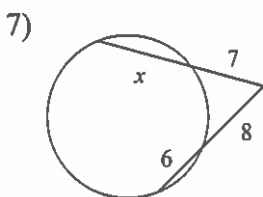
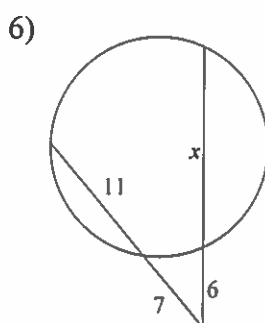
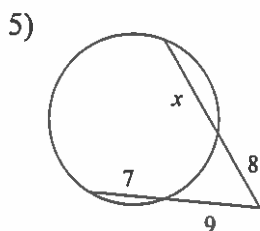
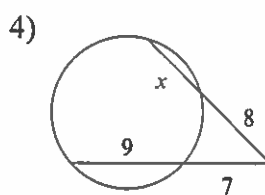
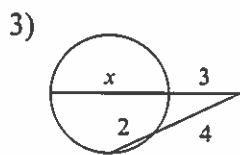
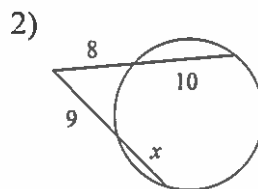
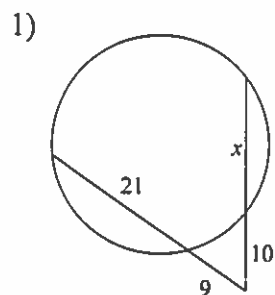


20)

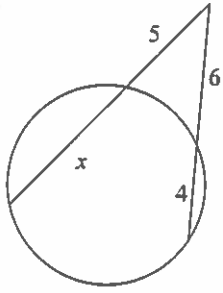


Secant-Secant Segments

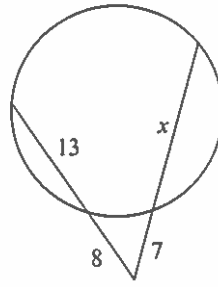
Solve for x . Assume that lines which appear tangent are tangent.



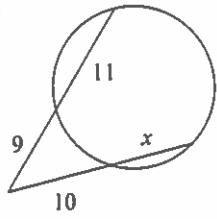
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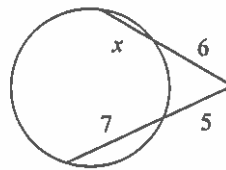
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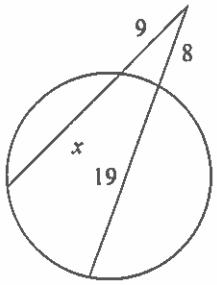
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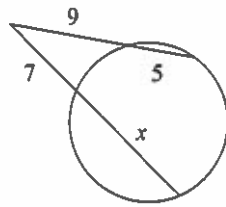
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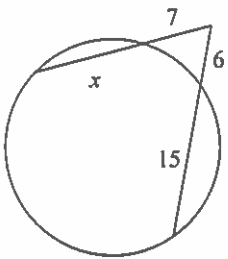
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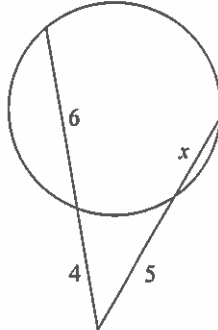
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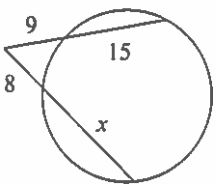
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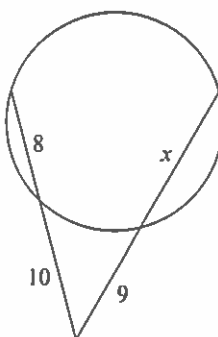
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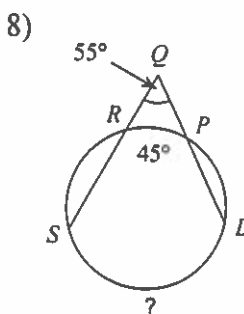
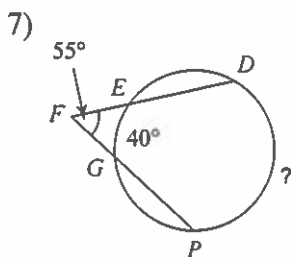
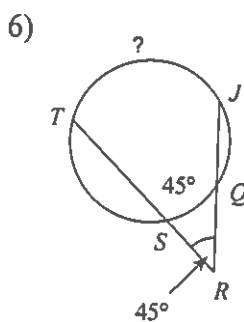
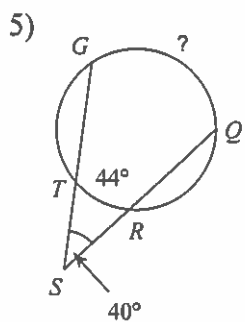
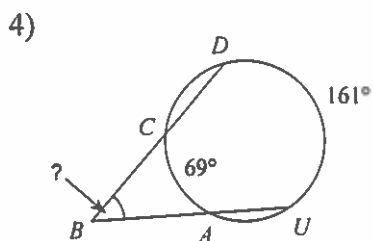
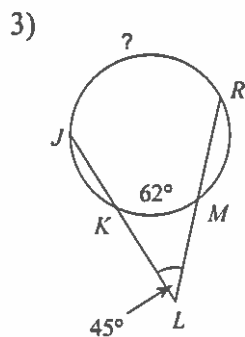
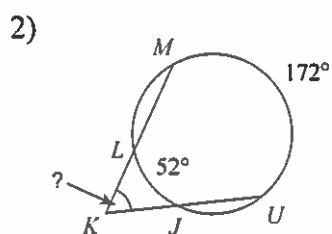
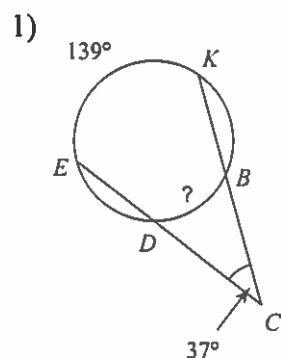


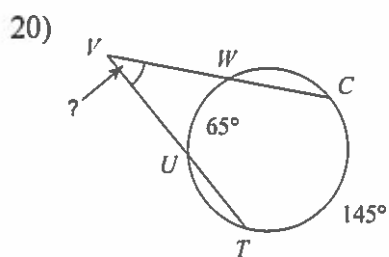
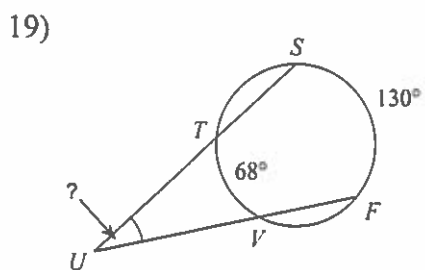
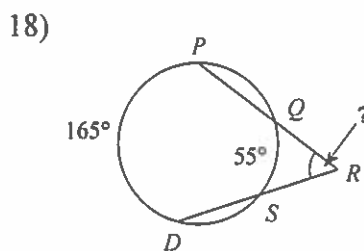
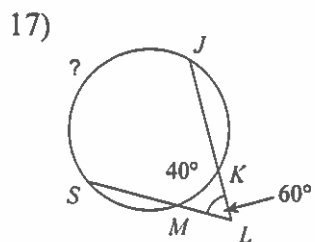
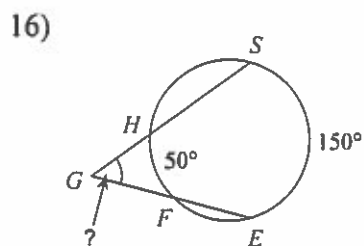
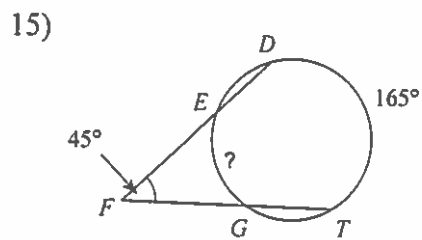
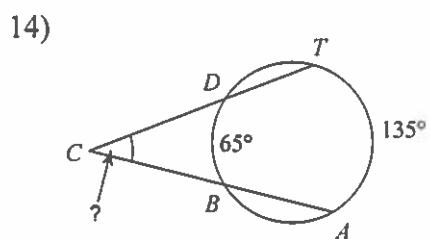
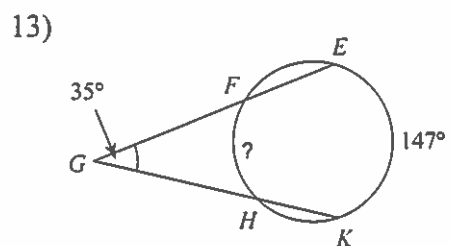
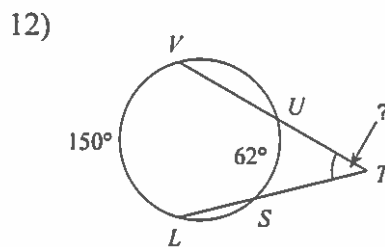
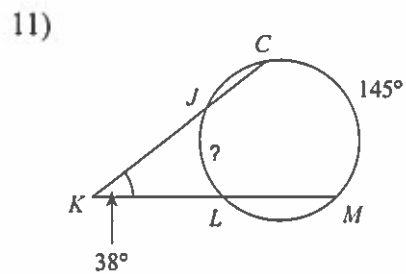
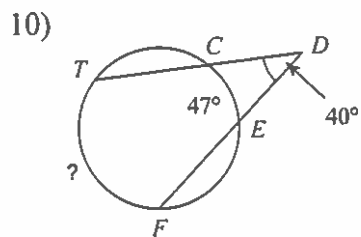
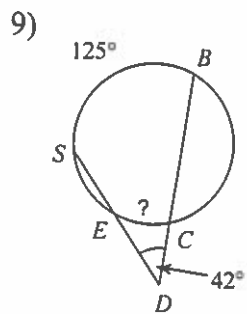
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Secant-Secant Angles

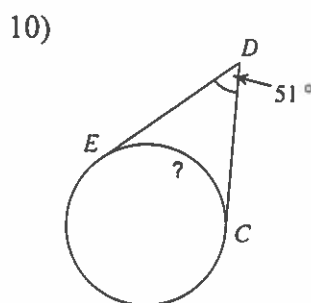
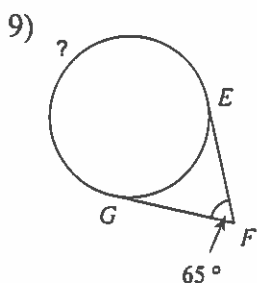
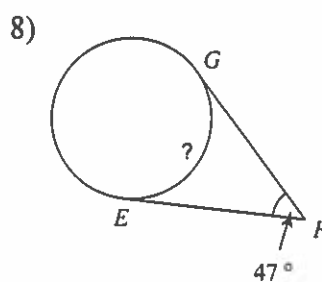
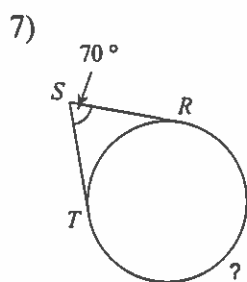
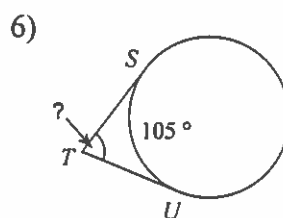
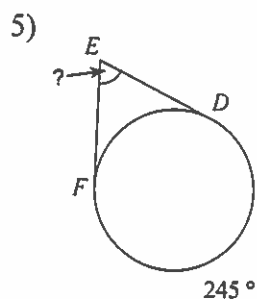
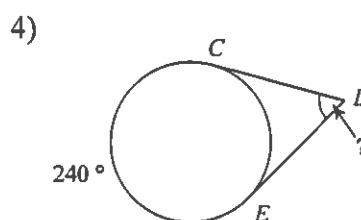
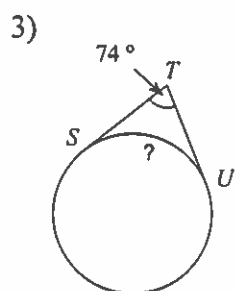
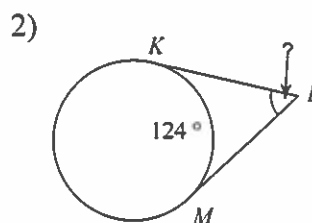
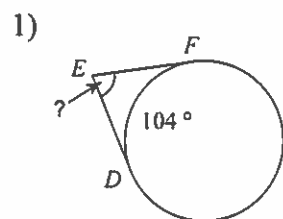
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.





Tangent-Tangent Segments and Angles

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.



Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

