

9.1

Circles and Spheres

Circle: _____

Given Point: _____ Given distance: _____

Radius: _____

Chord: _____

Secant: _____

Diameter: _____

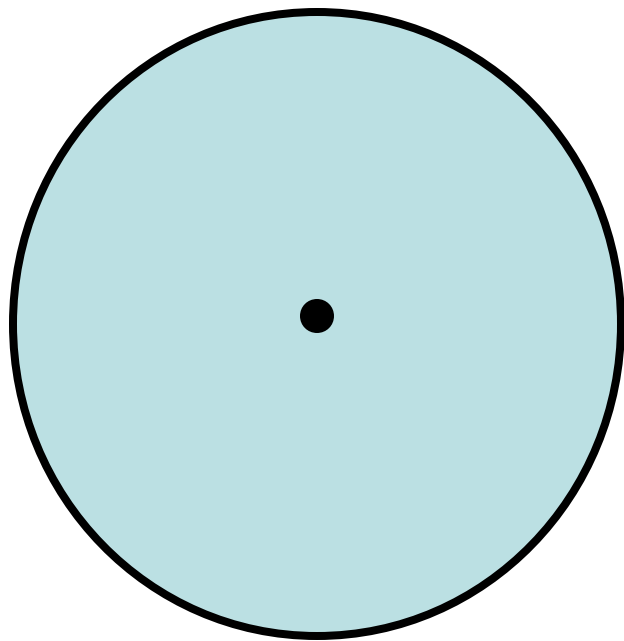
Tangent: _____

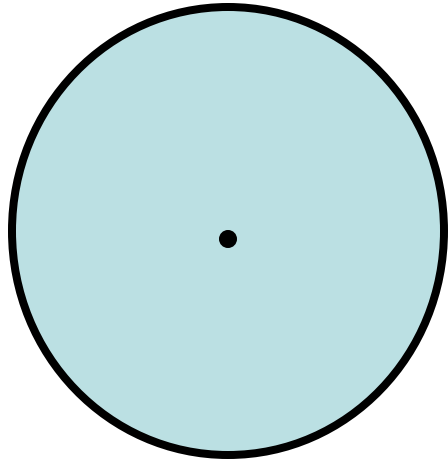
Pt. of Tangency: _____

Sphere: _____

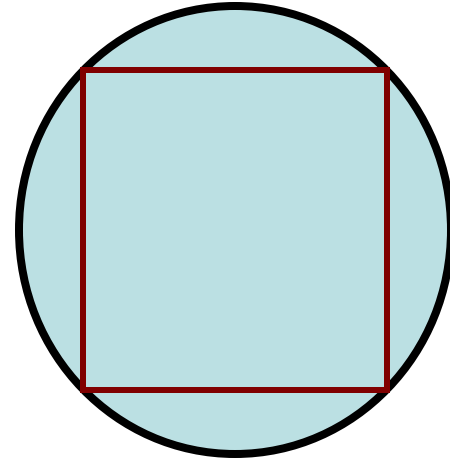
Congruent circles: _____

Concentric Circles: _____





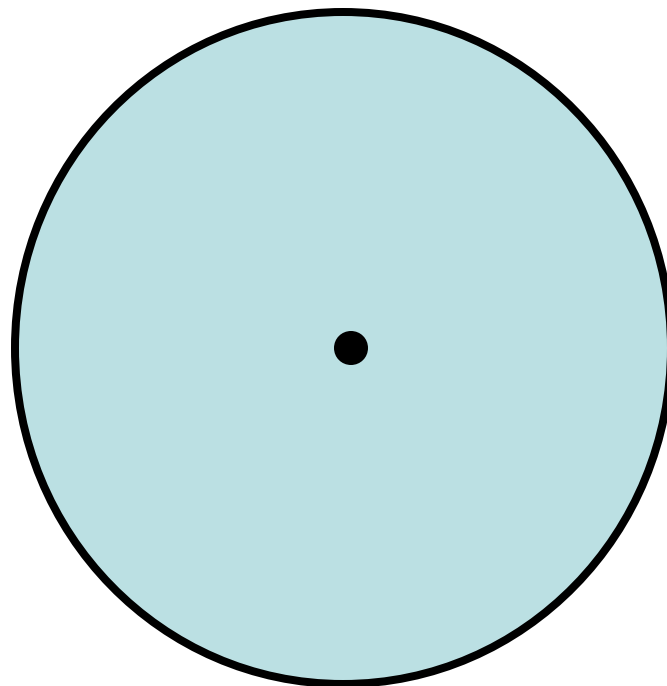
Concentric Circles



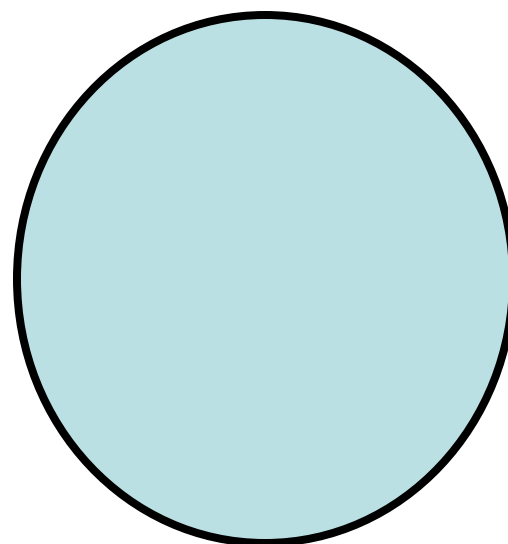
9.2

Tangents

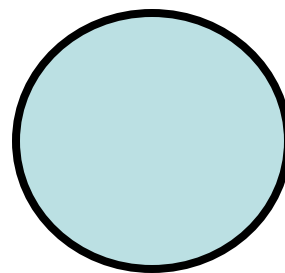
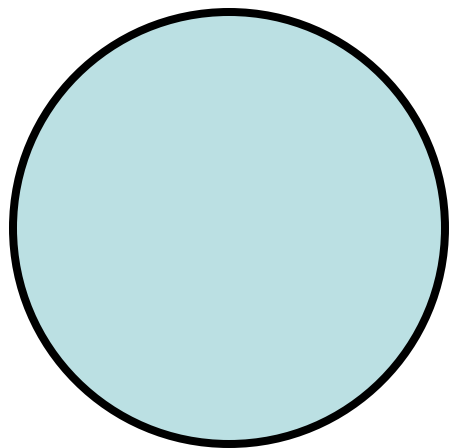
Theorem 9.1: _____



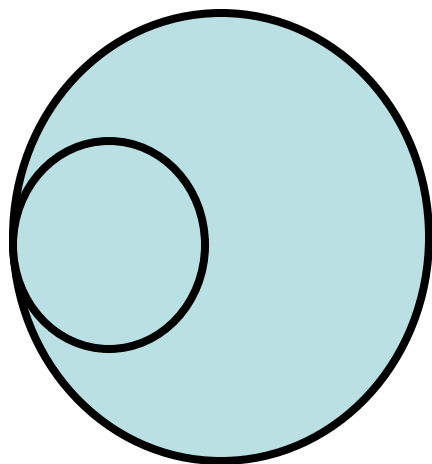
Corollary: _____

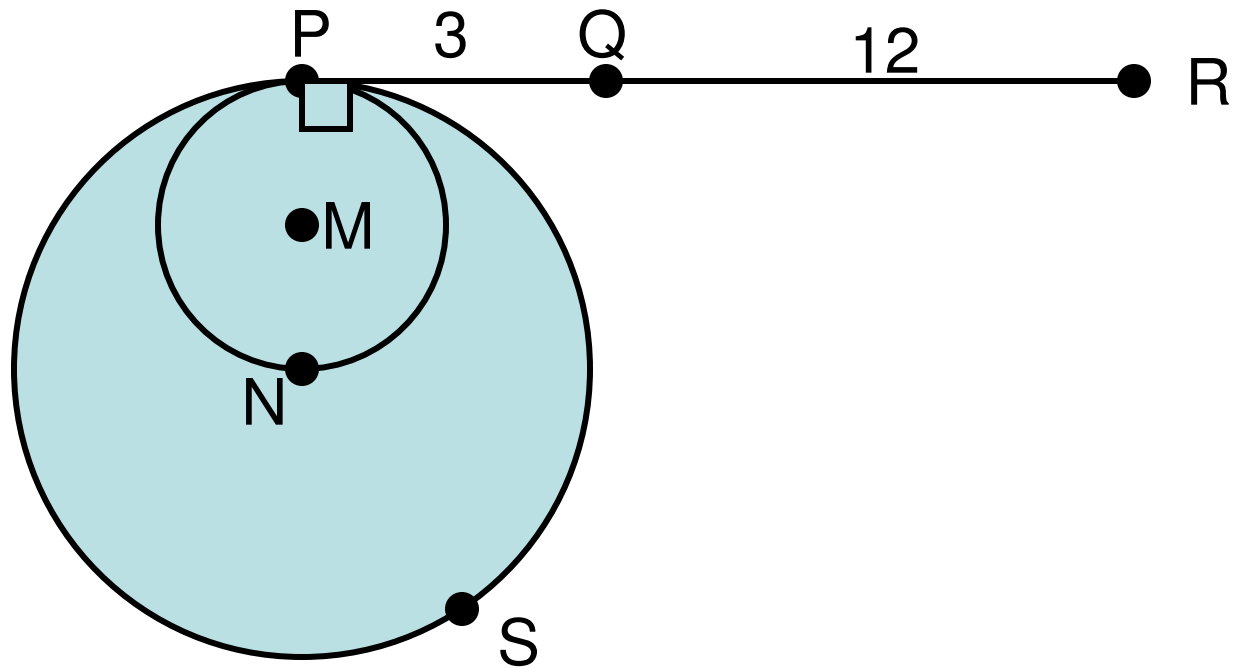


Common Tangent: _____



Tangent Circles: _____

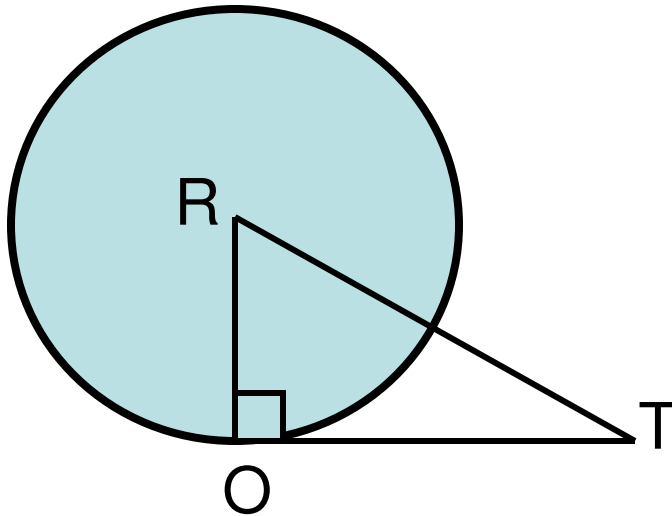




M & N are centers and P is a pt of tangency.

Find: $PM = \underline{\hspace{2cm}}$; $MQ = \underline{\hspace{2cm}}$; $PR = \underline{\hspace{2cm}}$

$SR = \underline{\hspace{2cm}}$; $NS = \underline{\hspace{2cm}}$; $NR = \underline{\hspace{2cm}}$



If $OR=6$ and $TO=8$ then $TR=$ _____

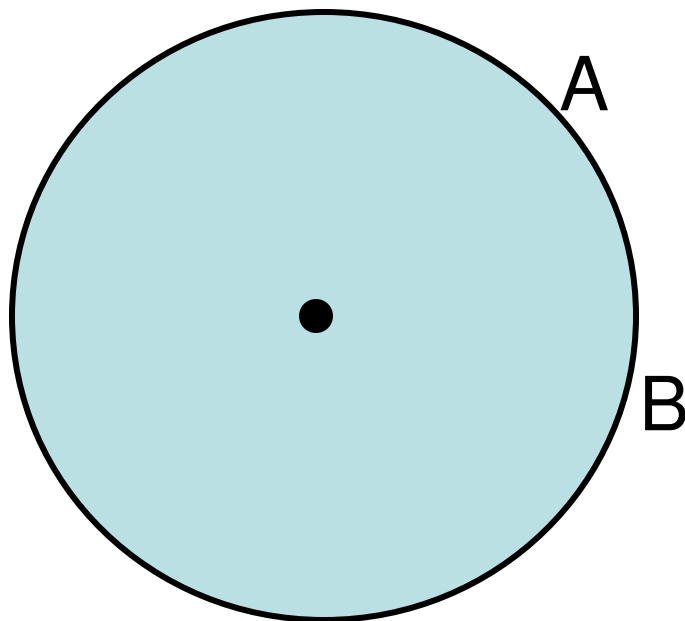
If angle $T= 45$ degees and $OT=4$ then $Tr=$ _____

9.3

Arcs and Central Angles

Central Angle: _____

Arc: _____

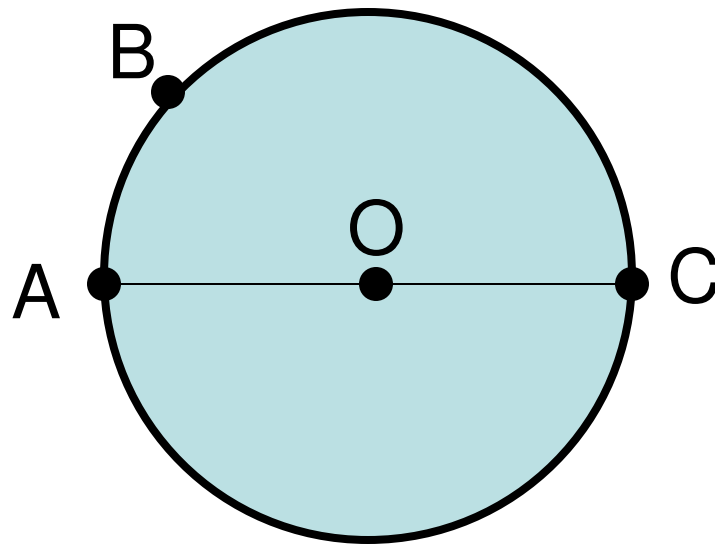


Different Arcs:

•Minor Arc: _____

•Major Arc: _____

•Semi Circle: _____

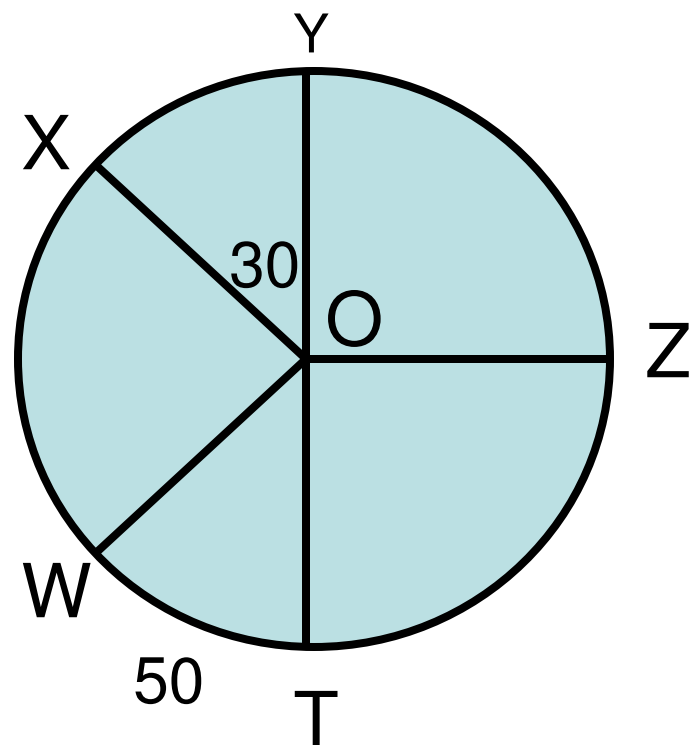


Minor Arc = _____

Major Arc = _____

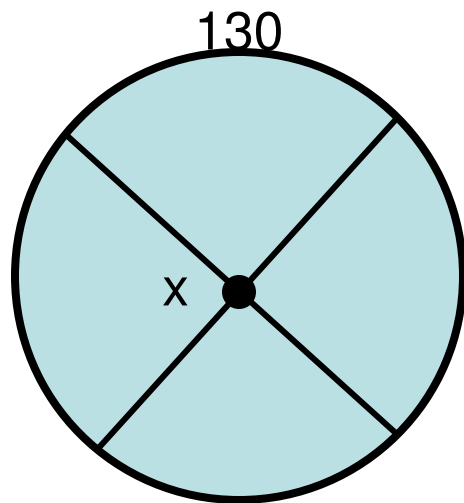
Semicircle = _____

Theorem 9.3: _____

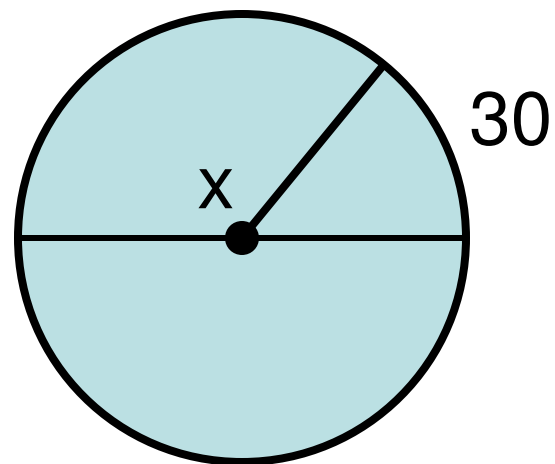


Find $\widehat{XY} =$ _____; $m\angle WOT =$ _____

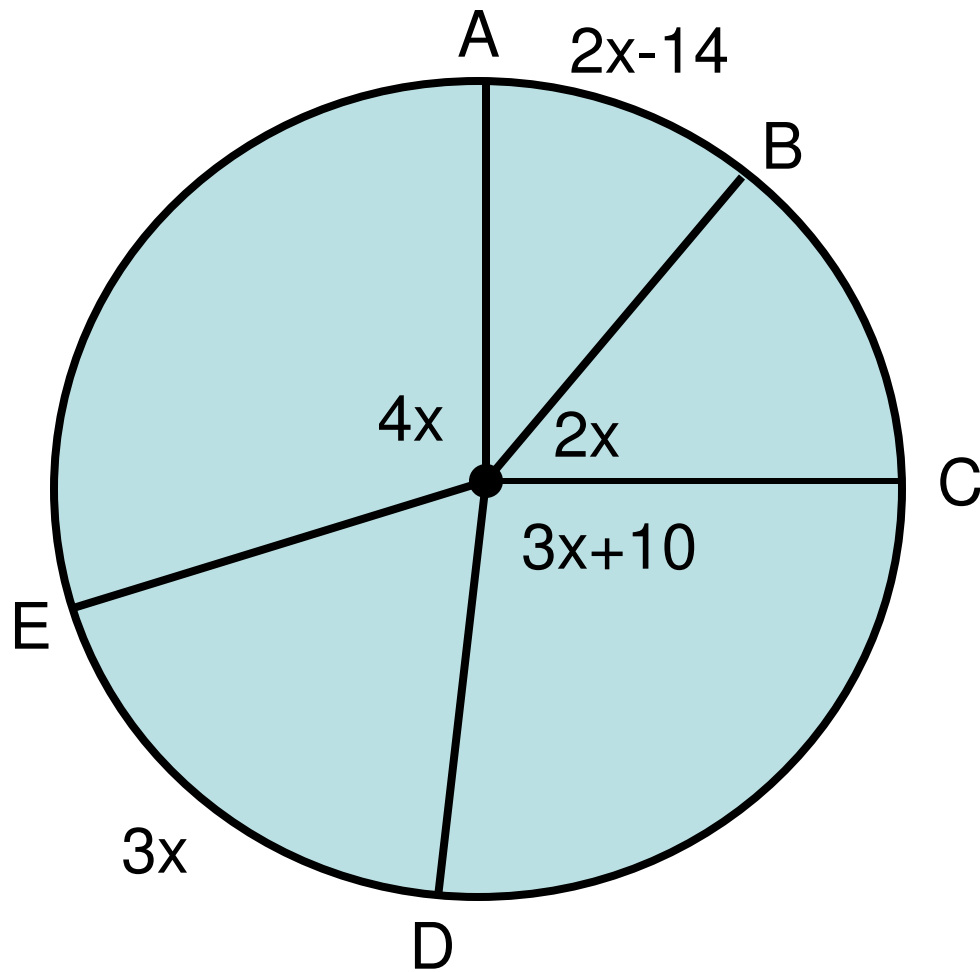
$\widehat{XYT} =$ _____; $\widehat{WX} =$ _____



$X = \underline{\hspace{2cm}}$



$X = \underline{\hspace{2cm}}$



Solve for $x =$ _____

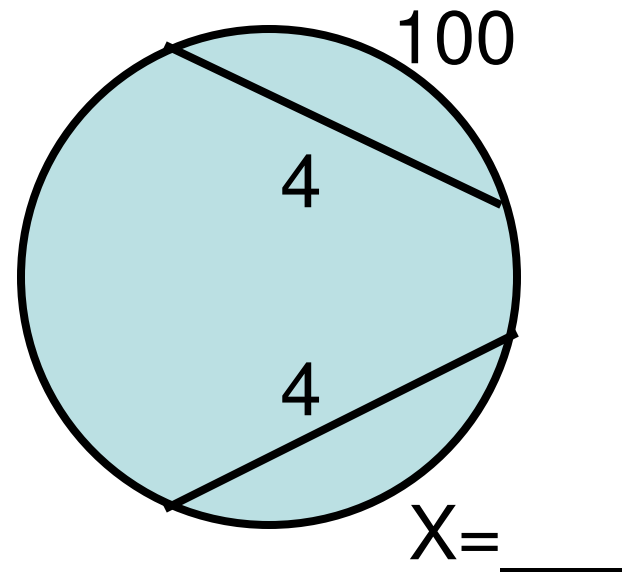
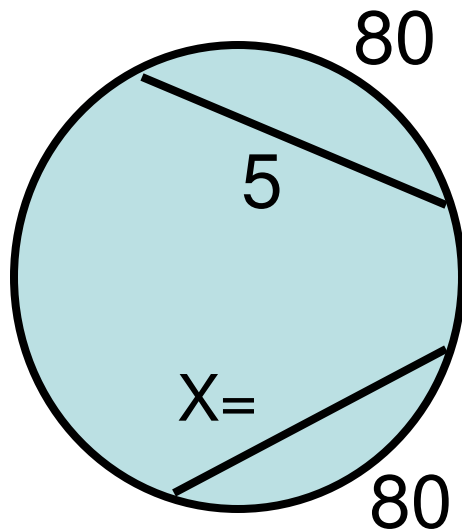
9.4

Arcs and Chords

Theorem 9.4 : _____

• _____

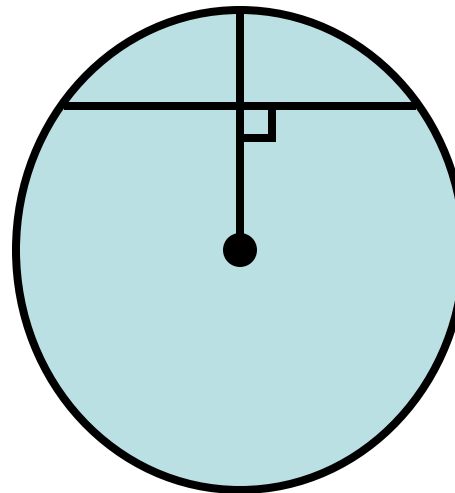
• _____



Theorem 9.5 : _____

•

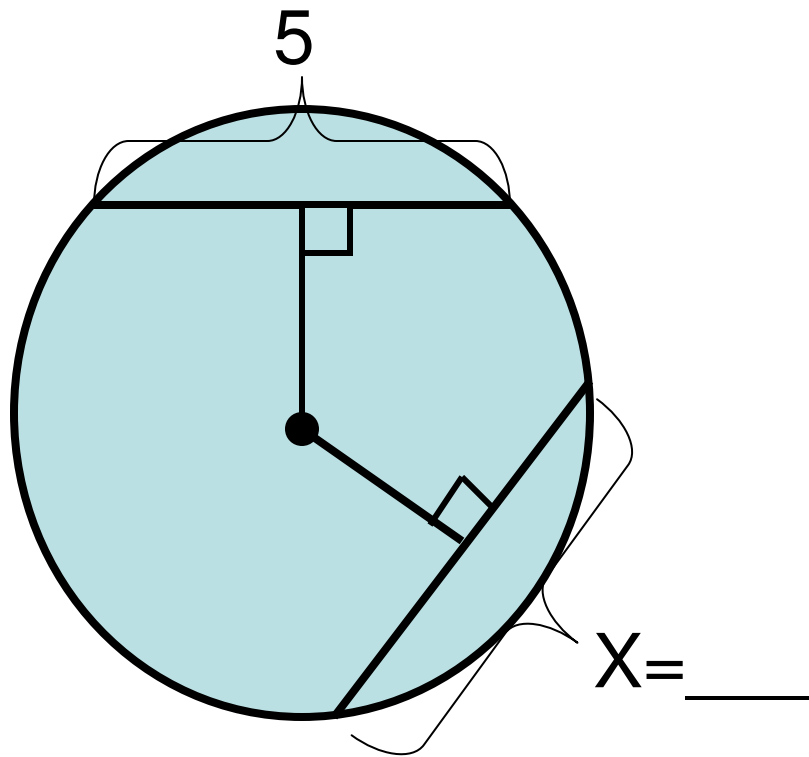
•



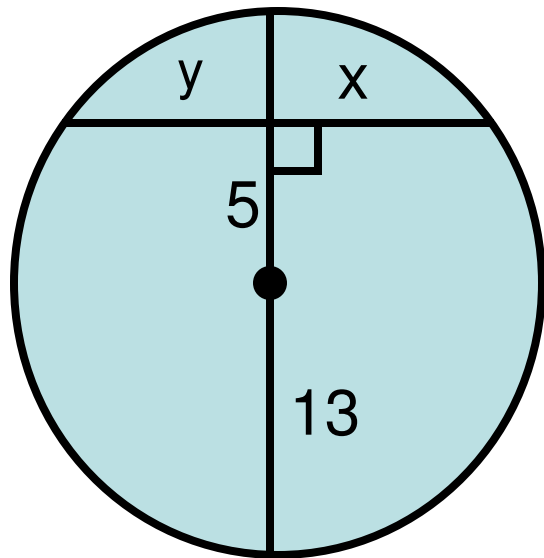
Theorem 9.6 : _____

•

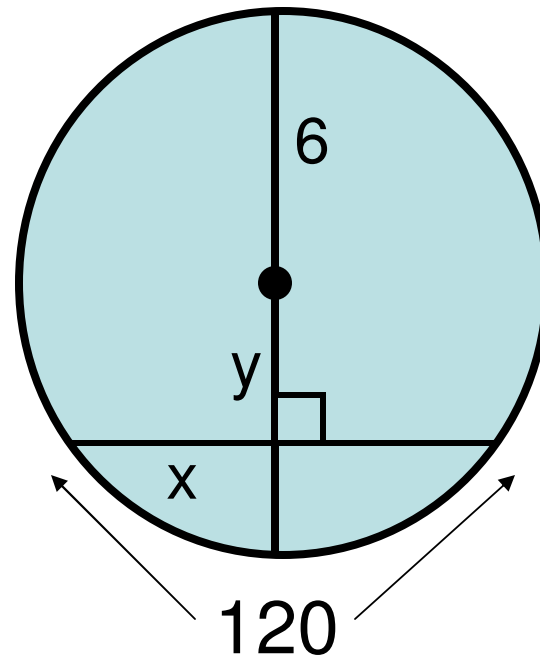
•



Examples:

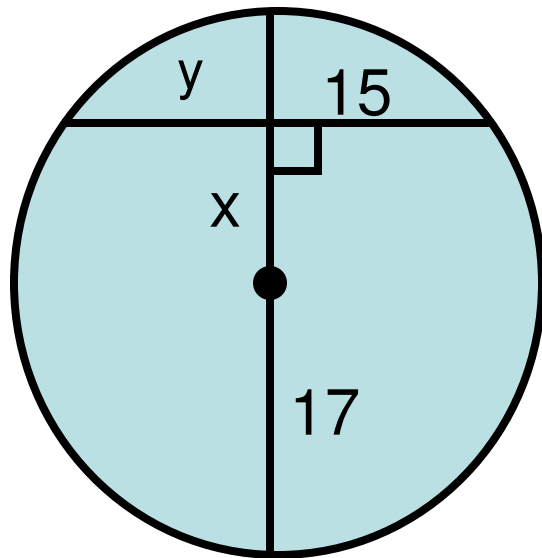


Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

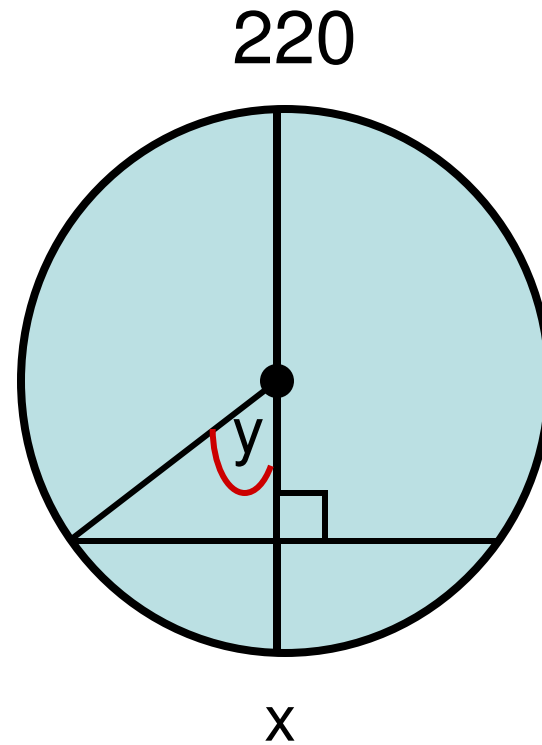


Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

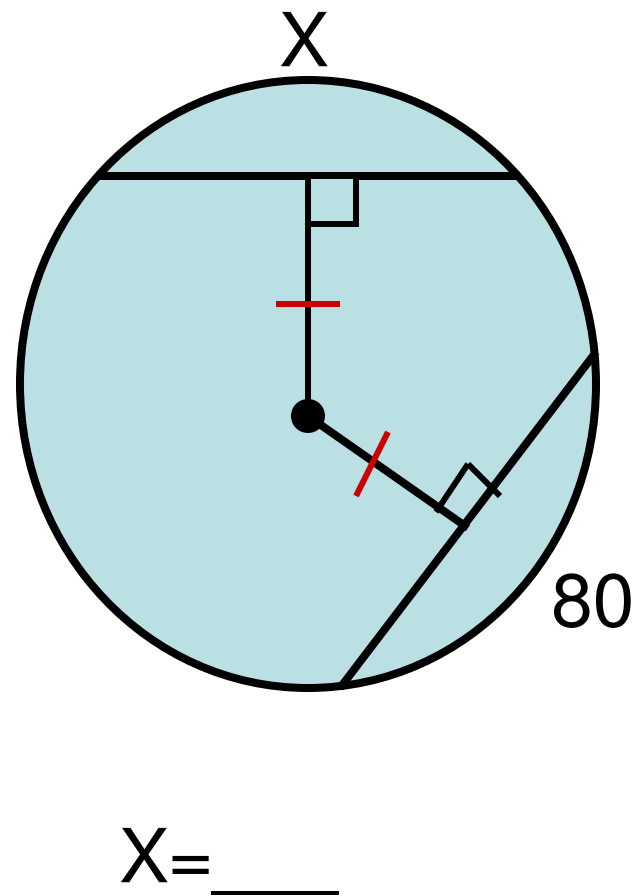
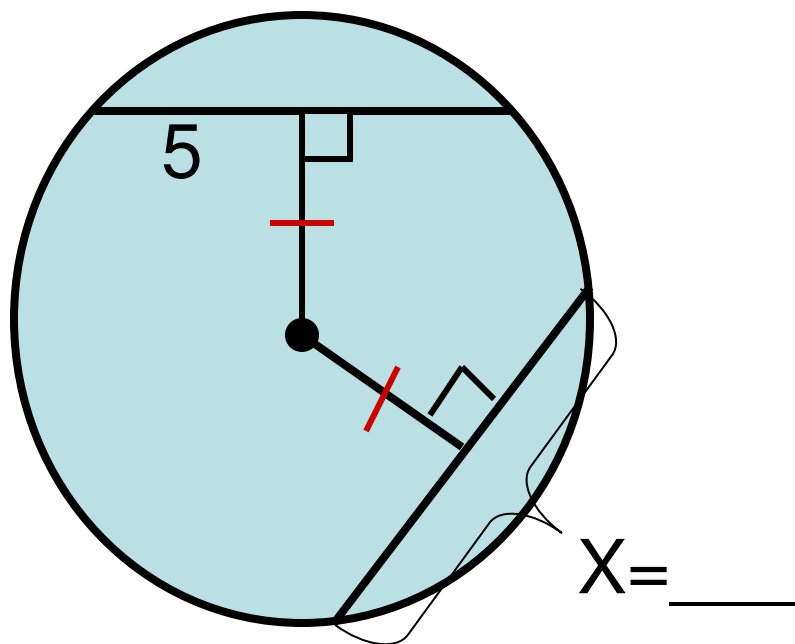
Examples:



Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

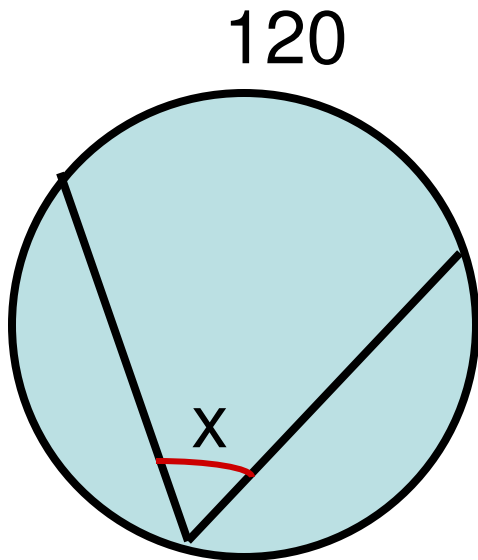


9.5

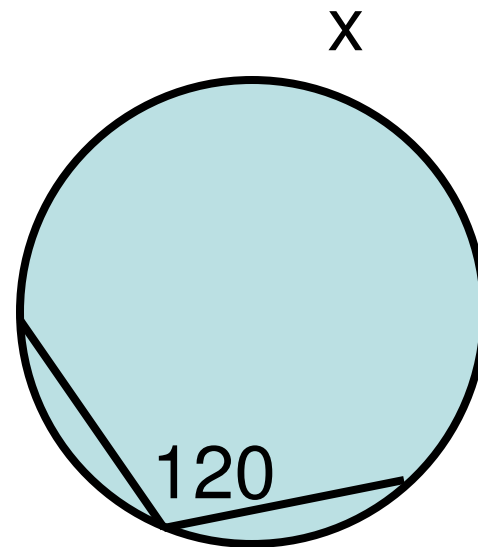
Inscribed Angles

Inscribed Angle: _____

•



X= _____



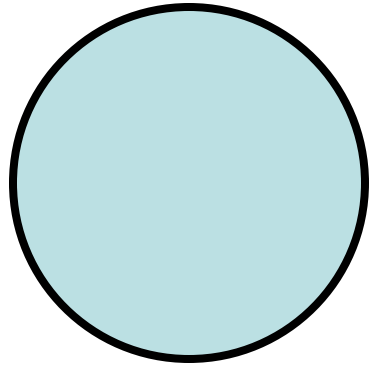
X= _____

Corollary 1: _____

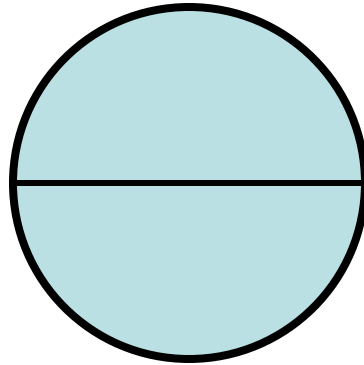
Corollary 2: _____

Corollary 3: _____

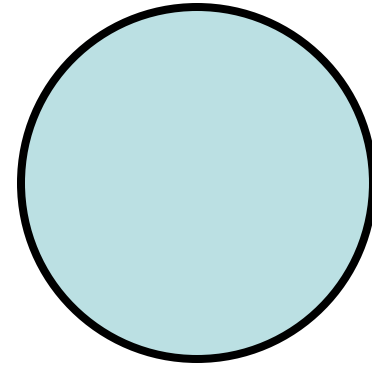
Corollary 1



Corollary 2

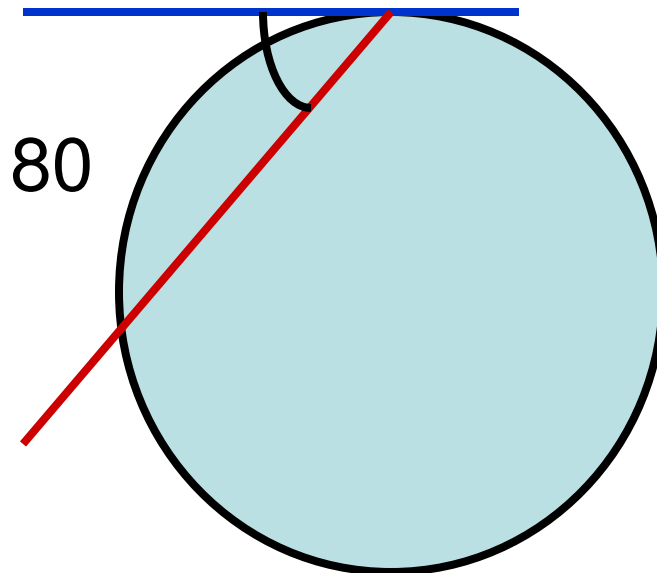


Corollary 3

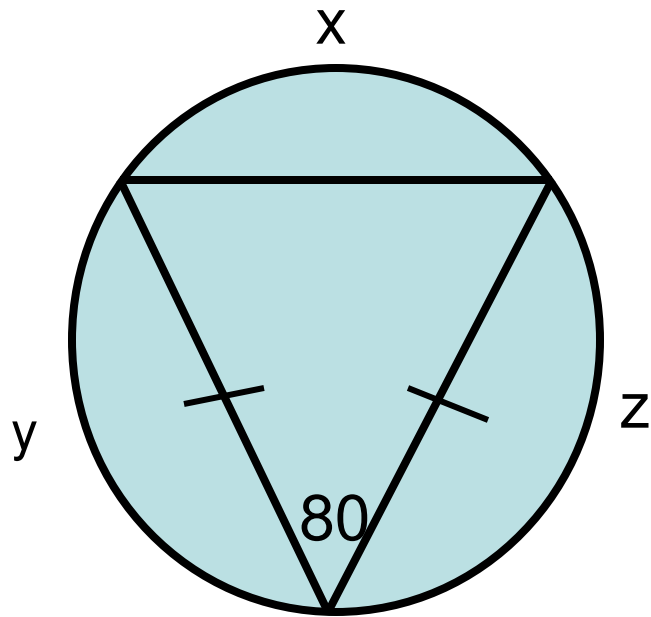


Special Inscribed Angle

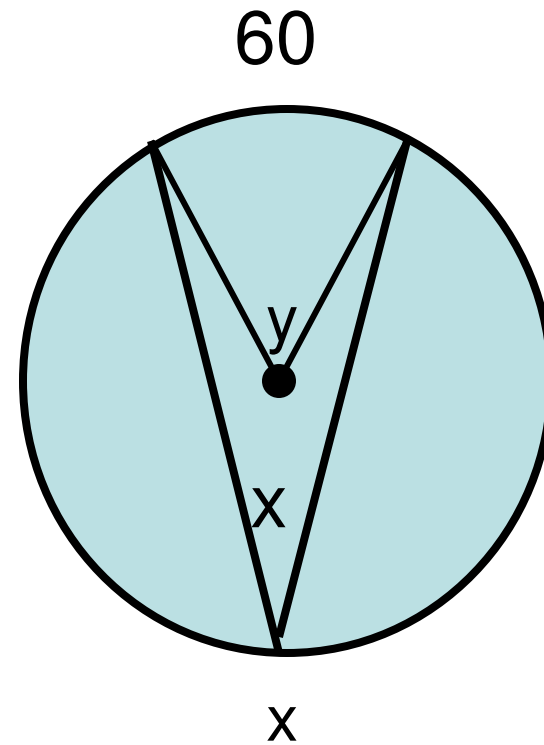
Theorem 9.8 : _____



Examples:

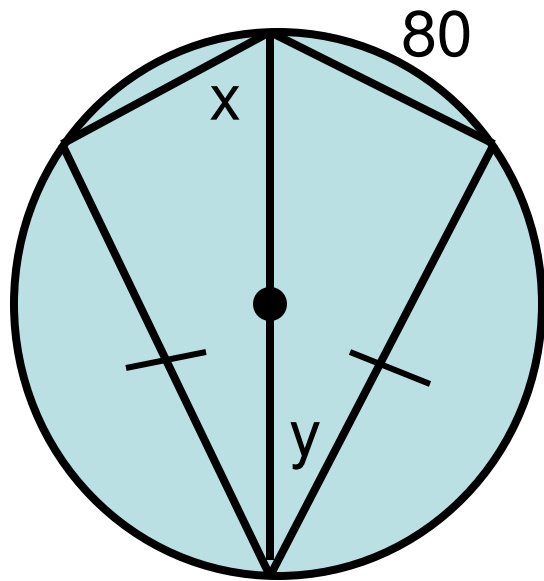


$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$

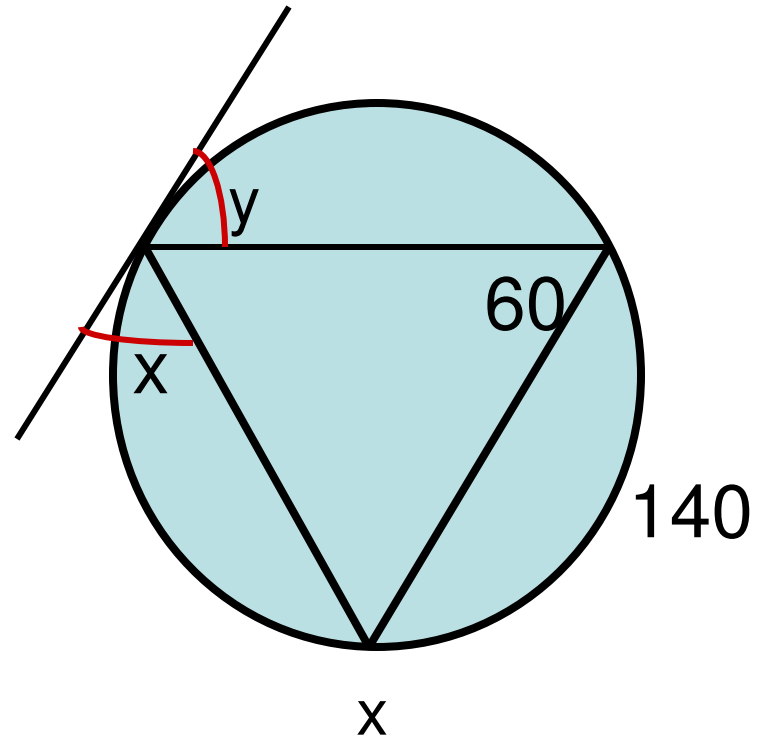


Find: $x = \underline{\hspace{2cm}}$ $y = \underline{60}$

Examples:

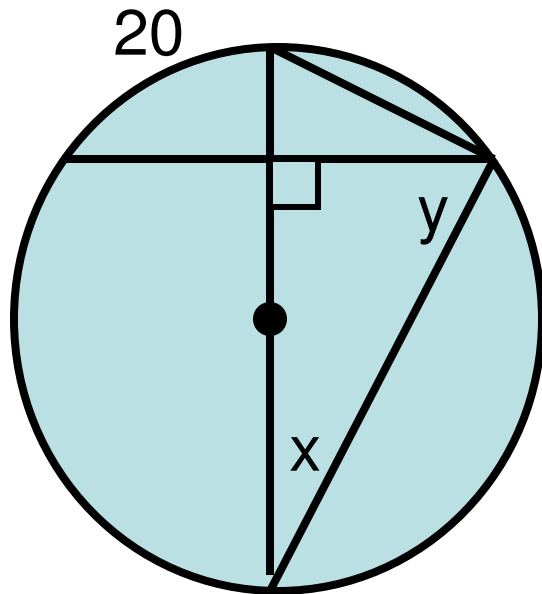


$y = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

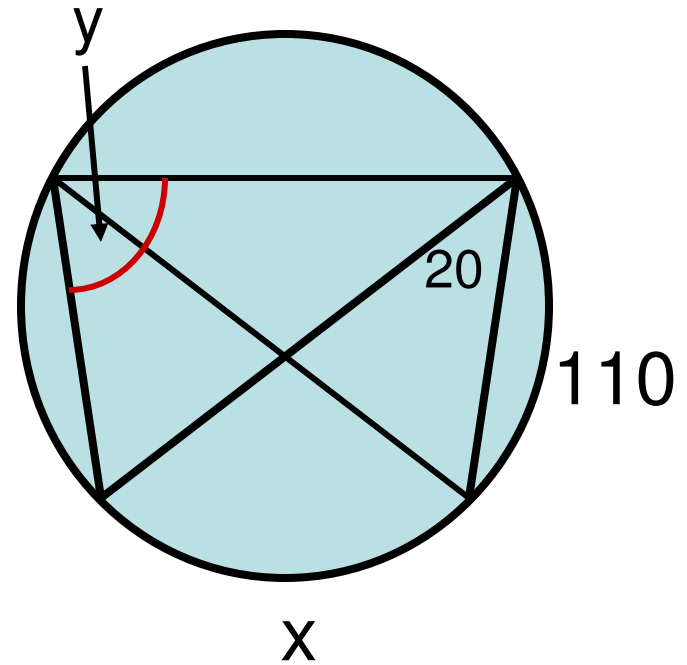


Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

Examples:



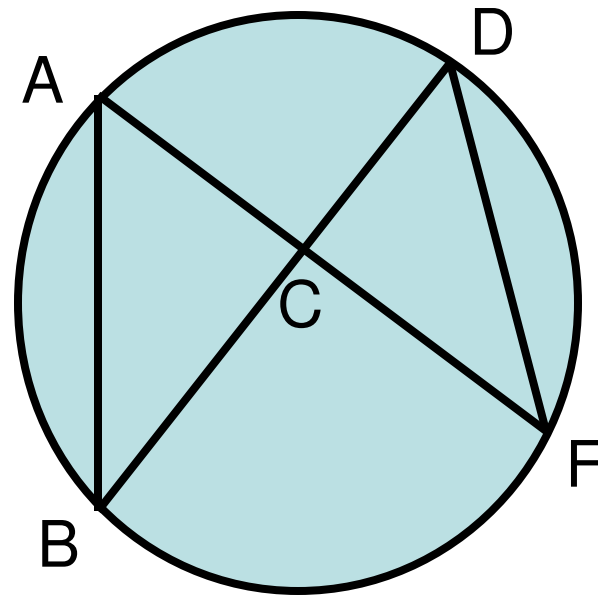
$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



Find: $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$

Given: None

Prove: $\triangle ACB \sim \triangle DCF$



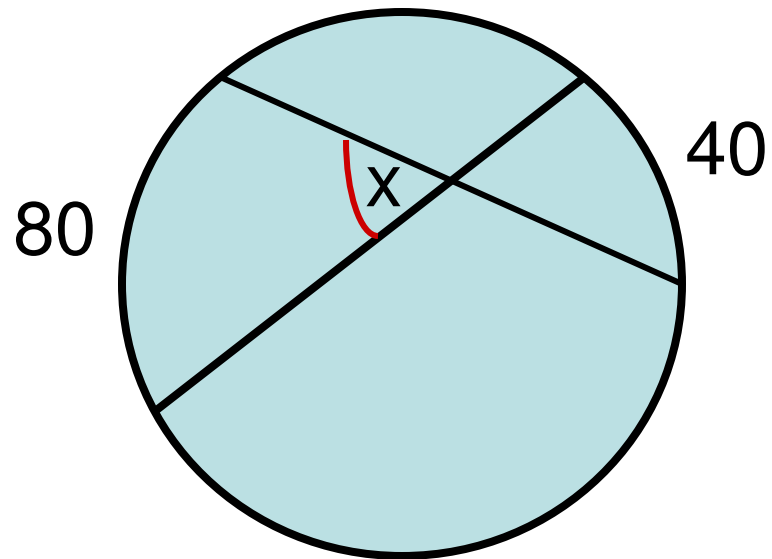
1.

1. Given

9.6

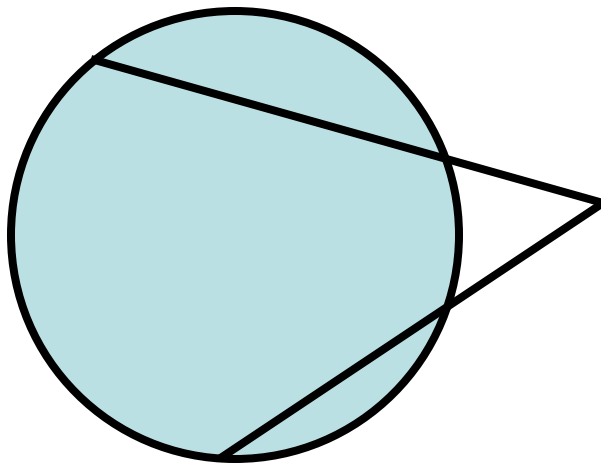
Other Angles

Inside Angle: _____

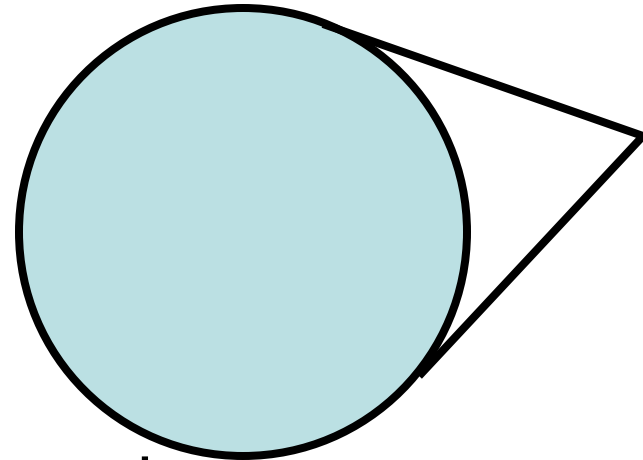


Outside Angle: _____

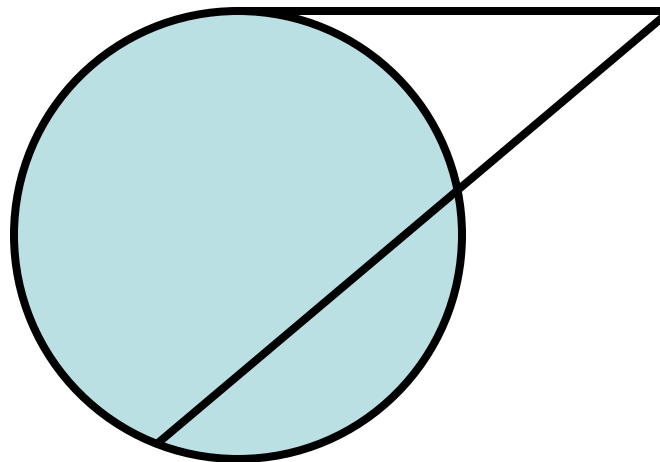
2 secants



2 Tangents

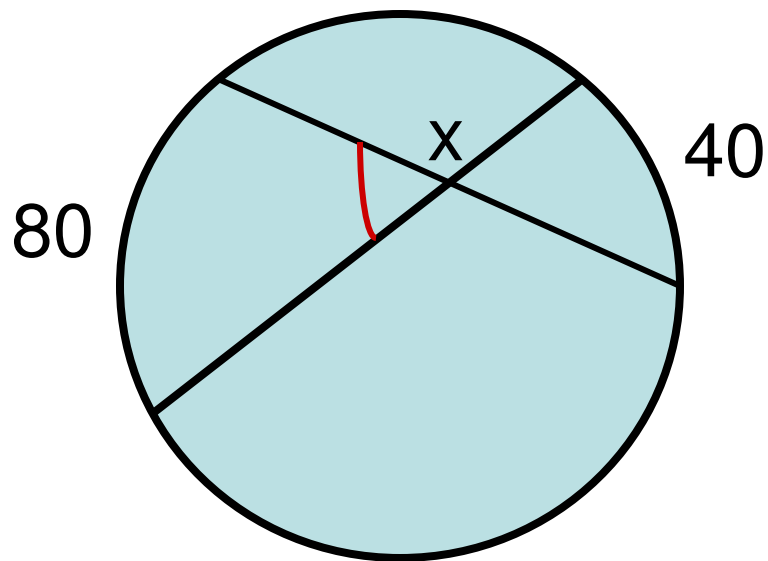


Secant & Tangent

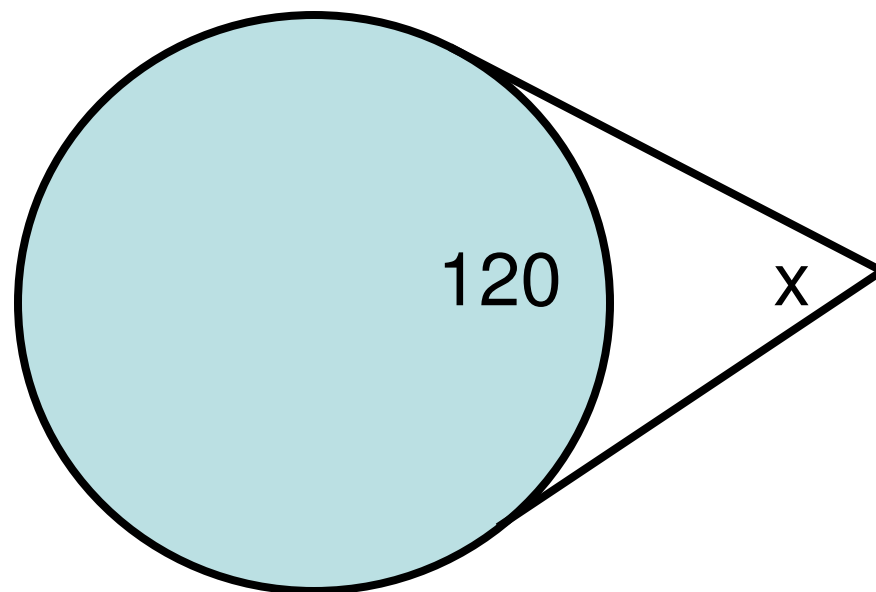


Solve for x :

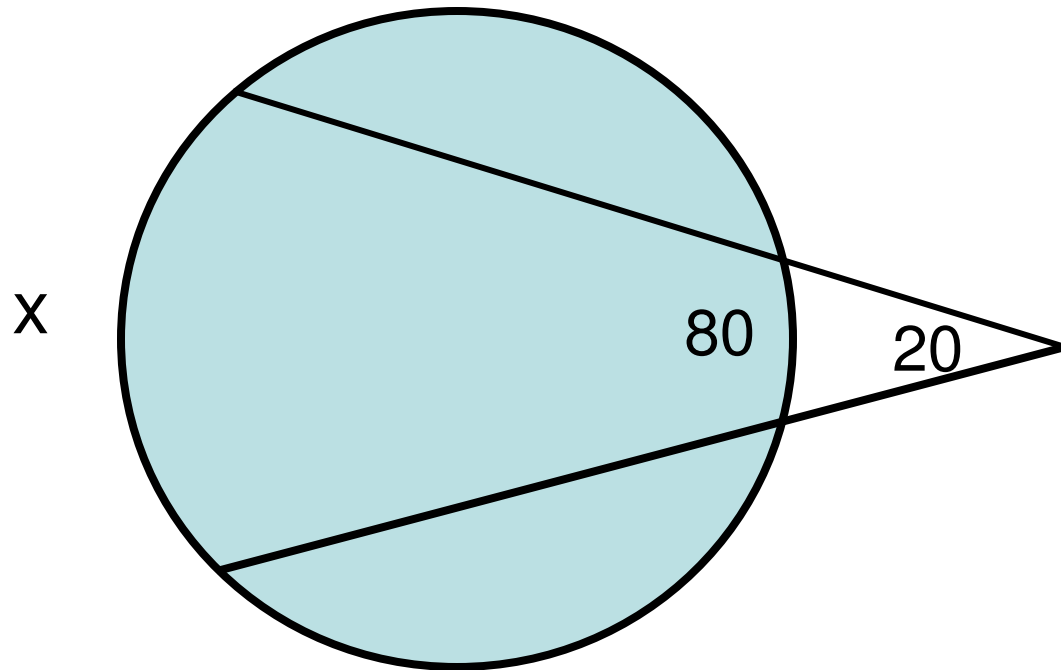
First solve for the inside angle



Find x :



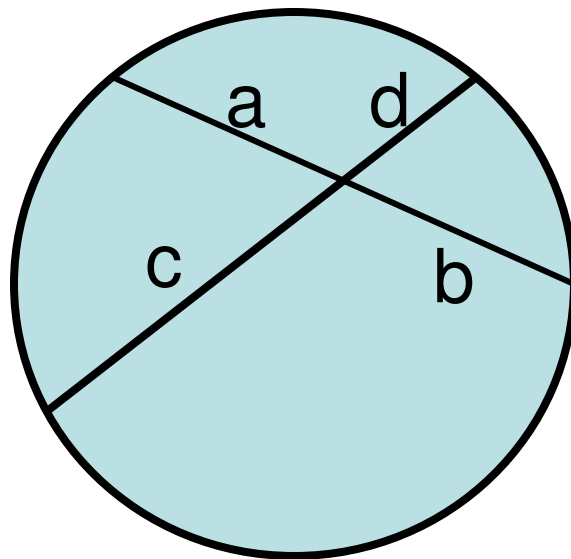
Find x :



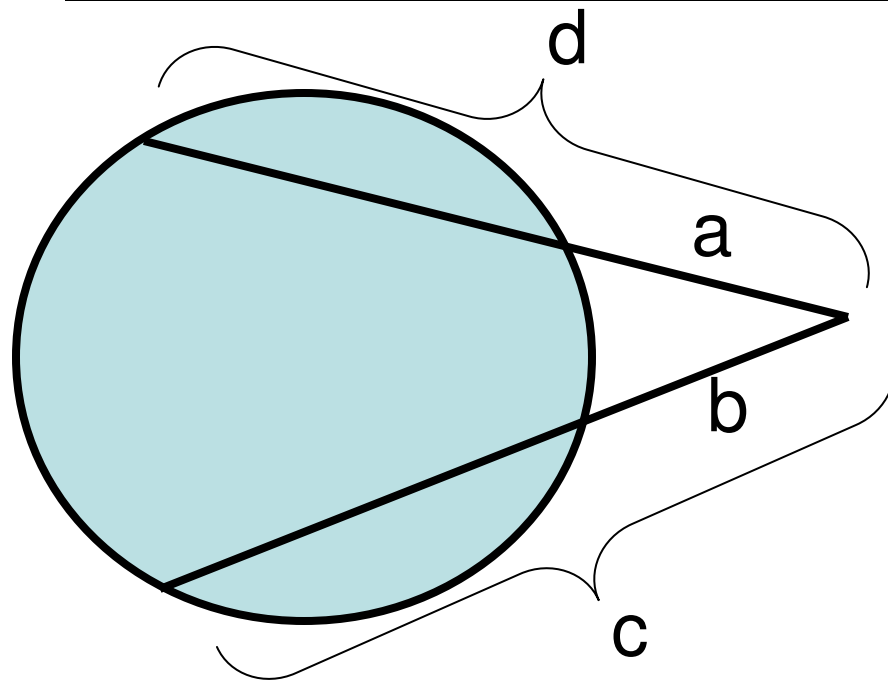
9.7

Circles and Lengths of Segments

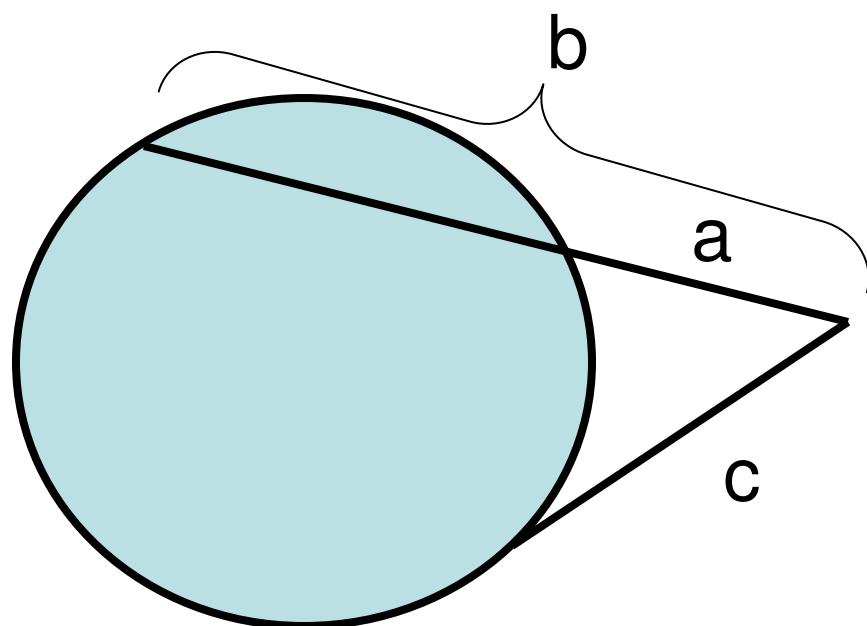
Theorem 9.11: _____



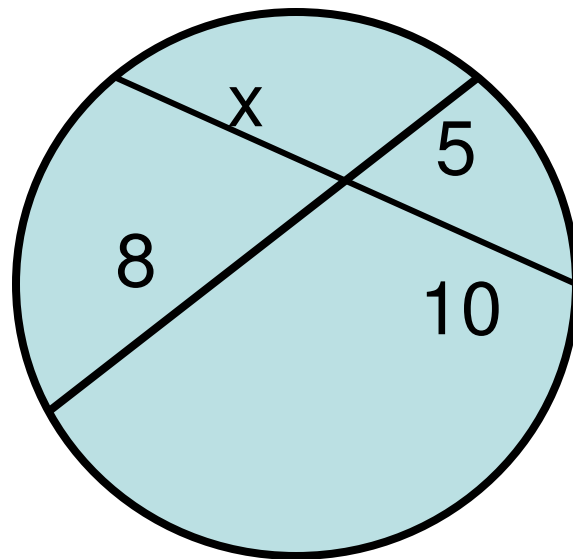
Theorem 9.12:



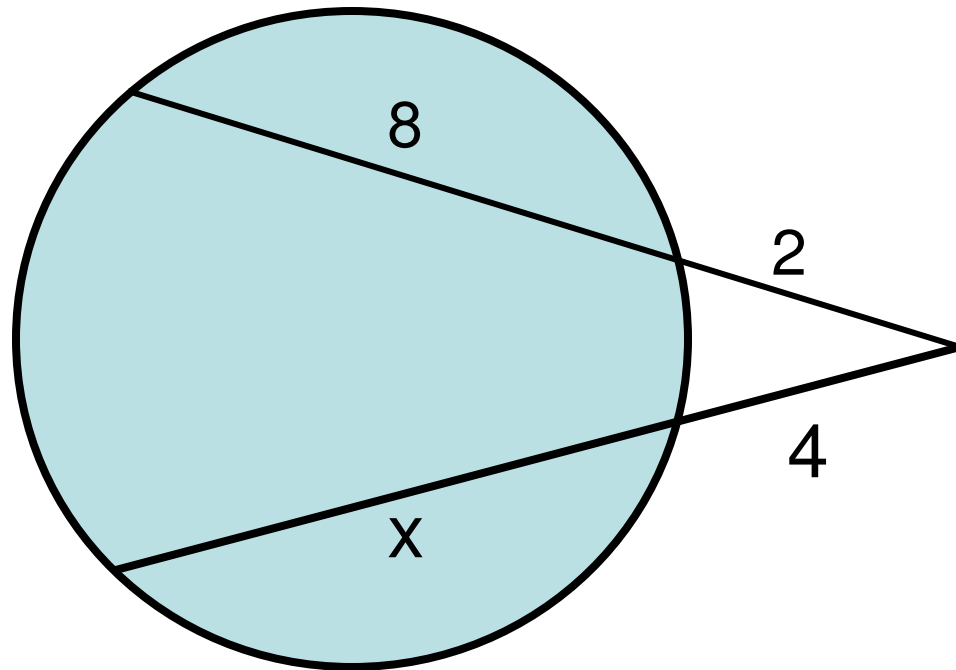
Theorem 9.13: _____



Solve for x:



Find x :



Find x :

