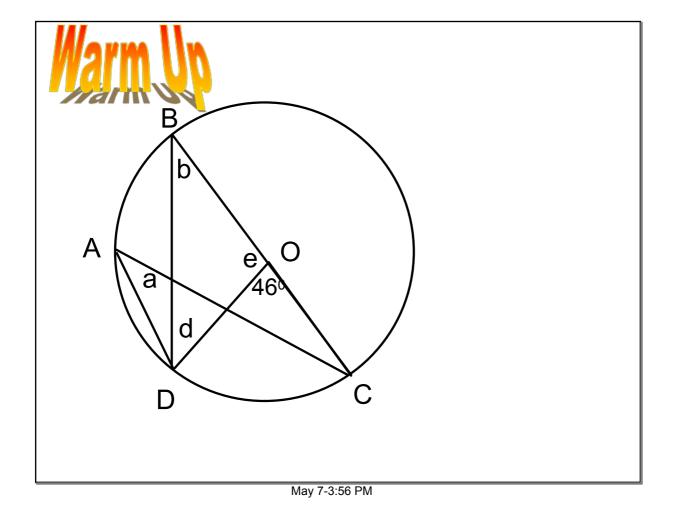
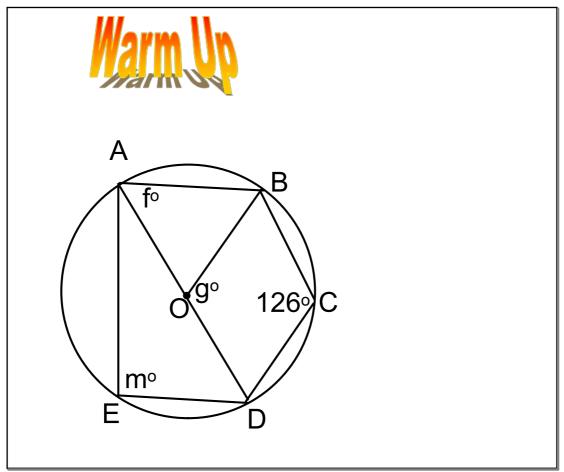
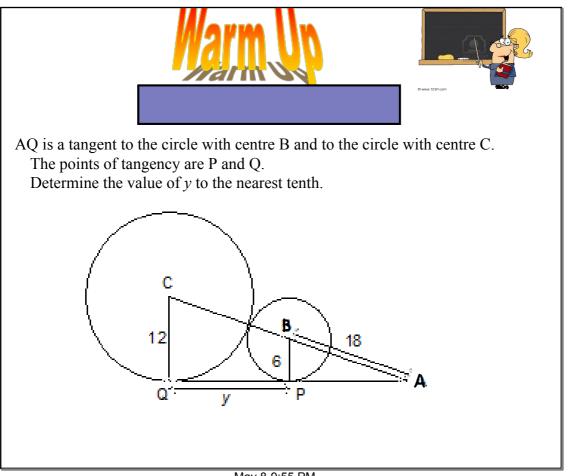


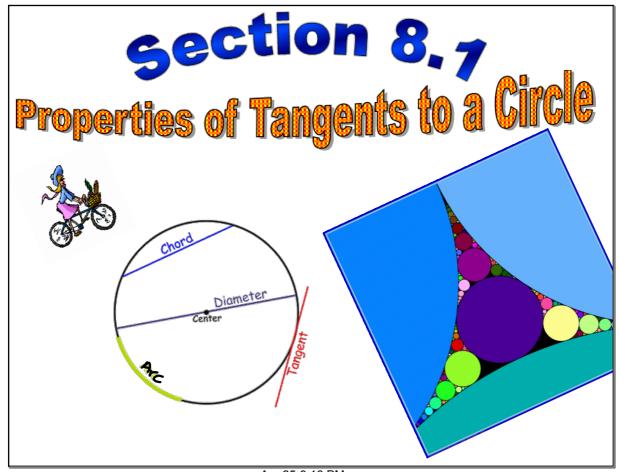
May 7-3:53 PM





May 9-7:53 AM



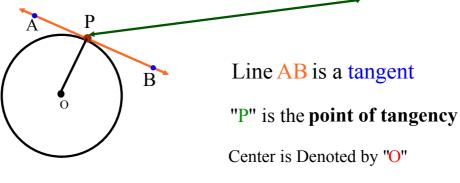


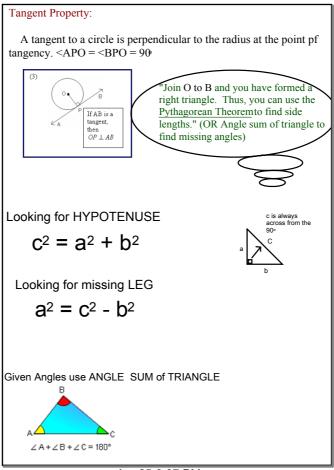
Apr 25-9:16 PM

Tangent Properties

- tangent a line that touches a circle/curve at only 1 point.
 - the point of contact is called the **point of tangency.**

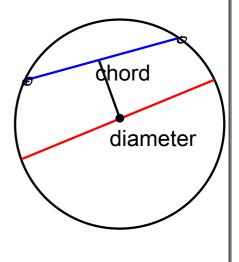
ex:

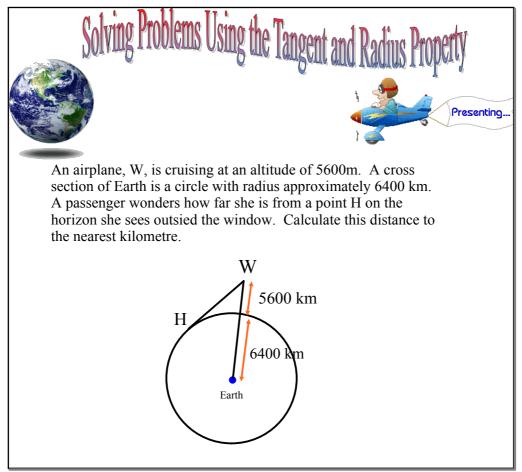




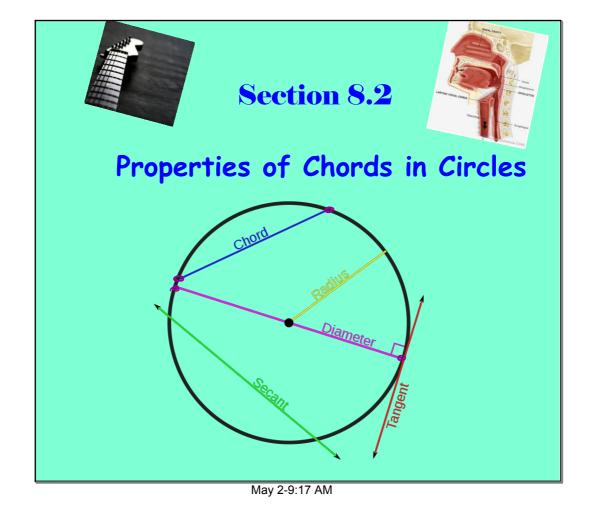
Apr 25-9:07 PM

- A line segment that joins two points on a circle is a chord.
- A <u>diameter</u> of a circle is a chord through the centre of the circle.





Apr 25-10:16 PM

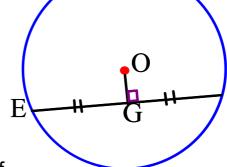


Perpendicular to a Chord Property

 A line that joins the center of a circle and the midpoint of a chord is

perpendicular to the chord,

When O is the centre and EP = PF, then $\angle OGE = \angle OGF = 90^{\circ}$.

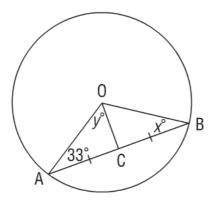


- Cuts chord in half
- Meets at 90°
- Goes through Center
- USE Radius to make right triangle

May 16-3:10 PM

Determining the Measure of Angles in a Triangle

Example #1. Determine the values of x^0 and y^0 .



Think: What do I know about angle C?

Use angle sum of a triangle:

Therefore, $y^0 =$

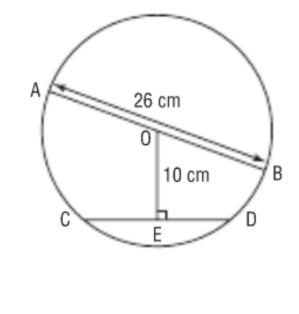
To find angle x:

We know the radii are equal, so \triangle AOB is isosceles.

Then, $\angle OBA = \angle OAB$ (isosceles.) Therefore, $x^{\circ} = \underline{\hspace{1cm}}$

Using the Pythagorean Theorem in a Circle

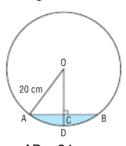
Example #2. What is the length of chord CD, to the nearest tenth?



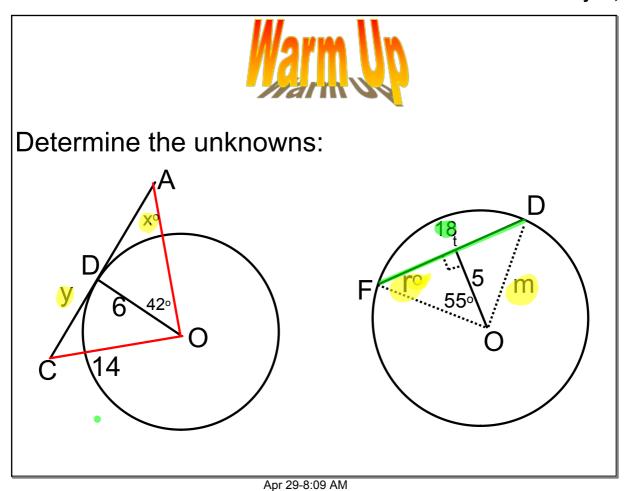
May 2-4:05 PM

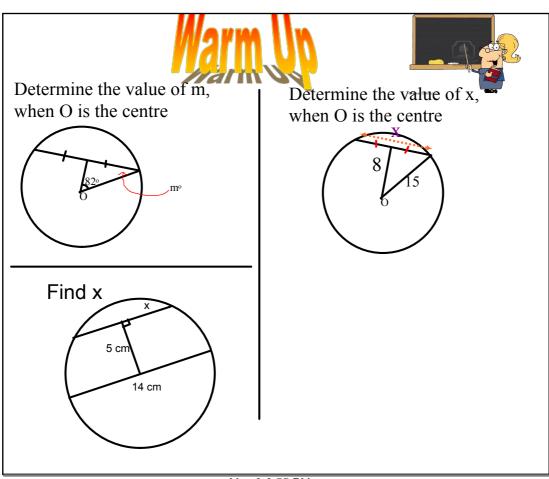
Solving Problems Using the Property of a Chord and its Perpendicular

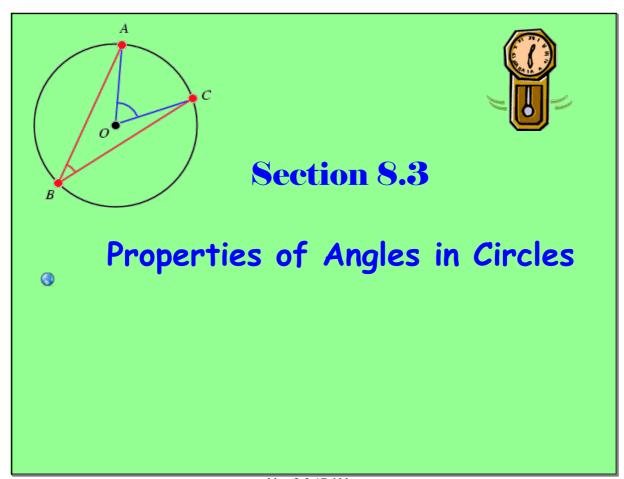
Example #3. Determine the length of CD.



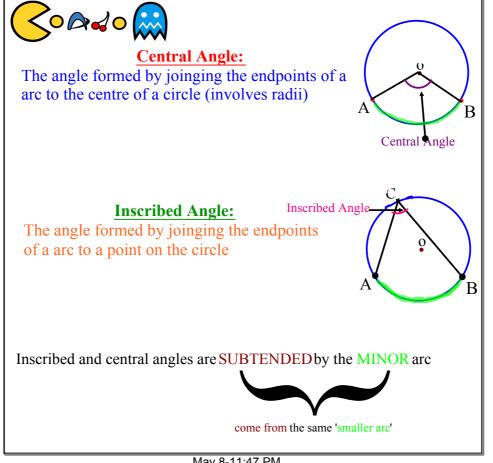
AB = 24 cm







May 2-9:17 AM



May 8-11:47 PM

Gentral Angle & Inscribed Angle Property

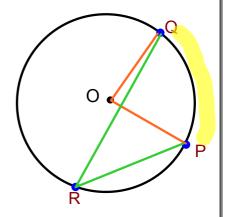
In a circle, the measure of a central angle subtended by an arc is TWICE the measure of an inscribe angle subtended by the same arc.

Central angle is twice the inscribed angle

or

$$<$$
PRQ = $\frac{1}{2}$ $<$ POQ

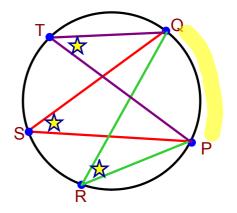
Inscribed angle is half the center angle

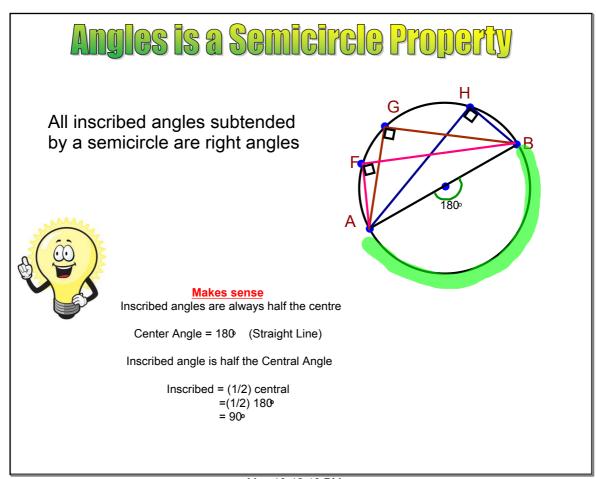


May 10-12:21 PM

Inscribed Angle Property

In a circle, all inscribed angles subtended by the same arc are congruent.

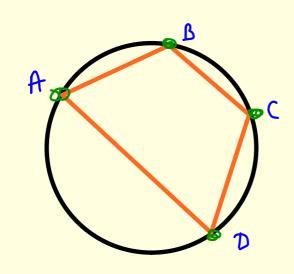




May 10-12:46 PM

Cyclic Quadrilateral Angle Properties:

Cyclic Quadrilateral - a four sided figure inscribed in a circle whereby all of the points lie on the circumference of a circle.

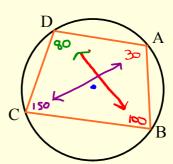


Sep 27-10:33 PM

Cyclic Quadrilateral Angle Properties:

Property 4:

__The opposite angles of an inscribed quadrilateral are supplementary. (their sum is 180°)



ABCD is an inscribed quadrilateral.

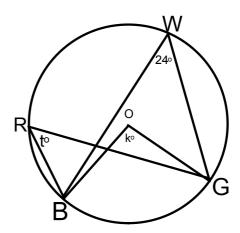
< A and < C are opposite therefore, < A + < C = 180

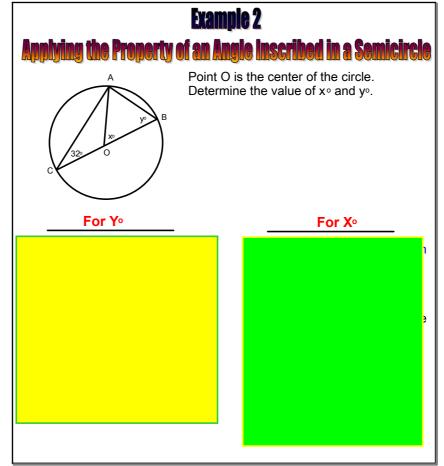
< B and < D are opposite therefore, < B + < D = 180

Sep 27-10:25 PM

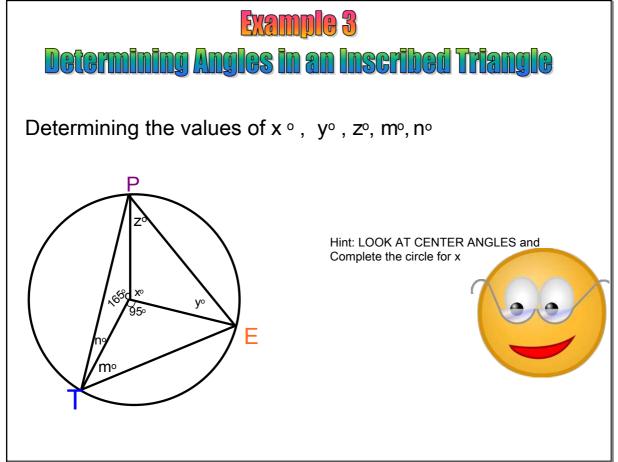
Example 1 Using Inscribe and Central Angles

Point O is the center of a circle. Determine the values of k and to.





May 10-1:20 PM



May 10-1:51 PM

Textbook Questions

Page 418-419

Questions: 1,2,5,7,9

Page 420

Practice Test

Questions: 1,2,3,6

May 27-1:48 PM

CSI Crime Scene Investigation.mp3

Worksheet - Angles in a Circle.doc