TEST Is Now
MONDAY, MAY 28th

Chapter 8: Notes

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

$a^2 = c^2 - b^2$

(SATT)

< ___ = 90° (Tang P)

< ___= __° (ins/cent >, $\overset{\frown}{\_\_}$)

(ITT)

<___= 90° (Chord P)

< ___= __° (ins >, $\overset{\frown}{\_\_}$)

(SAT)

___ = ____(Chord P)

< ___= __° (ins >, diam)

(CAT)

(CyAT)

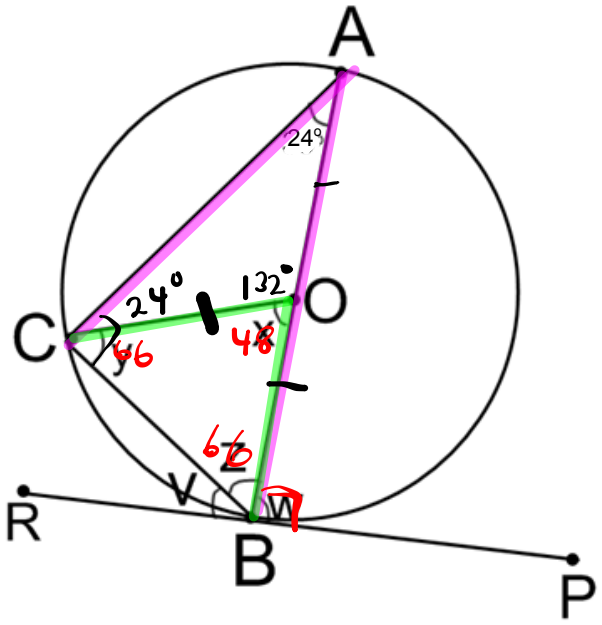
< ___= __° (CyQuad)

(OAT)

(EAT)

Warm Up

Do on your own



X=<COB=48°(Inc/Cent >, BC)

w= <OBP= 90° (Tang P)

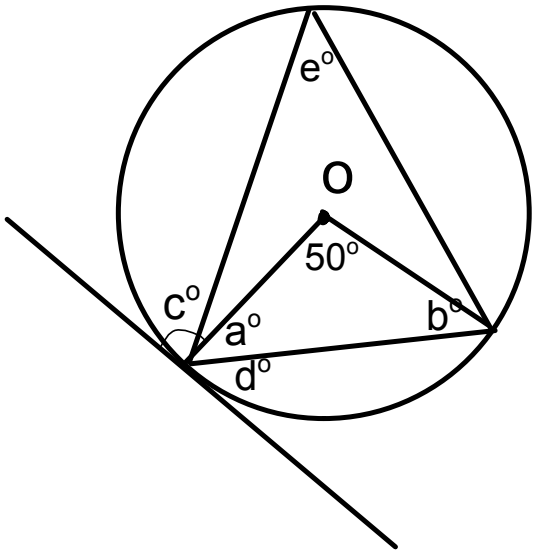
y= <OCB= 66° (ITT)

z= <OBR= 66° (ITT)

v=<CBR= 24° (SAT)

(or CAT)

Warm Up



a°= 65° (ITT)

b°= 65° (ITT)

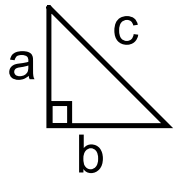
c°= 90° (Tang P)

d°= 25° (CAT)

e°= 25° (Inc/cent)

Chapter 8: Notes

Pythagorean theorem



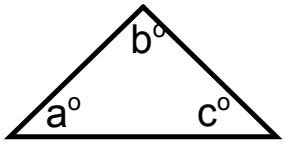
Hyp = ?

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

Leg = ?

$a^2 = c^2 - b^2$

Angle Sum of Triangle Theorem (SATT)



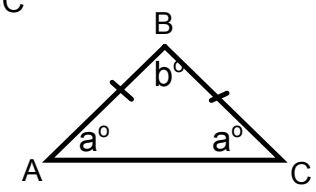
$a^o + b^o + c^o = 180^o$

Isosceles Triangle Theorem (ITT)

Two sides are equal : AB = BC

Base angles are equal:

< A = <C



If a^o = ?

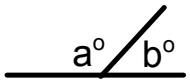
$a^o = \frac{180 - b}{2}$

If b^o = ?

$b^o = 180 - a^o - a^o$

Angle Properties

Supplementary Angle Theorem (SAT)

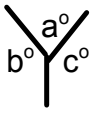


$a^o + b^o = 180^o$

Complimentary Angle Theorem (CAT)

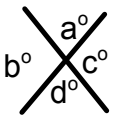
$a^o + b^o = 90^o$

Cyclic Angle Theorem (CyAT)



$a^o + b^o + c^o = 360^o$

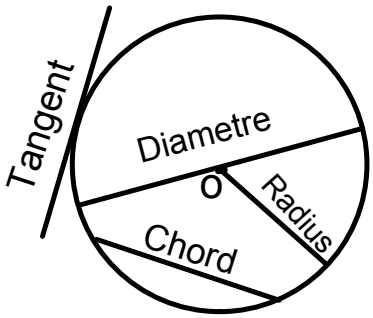
Opposite Angle Theorem (OAT)



$a^o = d^o$

$b^o = c^o$

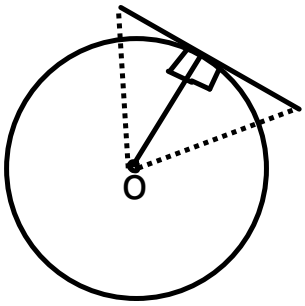
Information about circles



Tangent Property

< ___ = 90° (Tang P)

- a radius hits a tangent at 90°



To solve unknown sides :

Pythagorean Theorem

To solve unknown angles :

SATT

Chord Property

If chord lengths are indicted

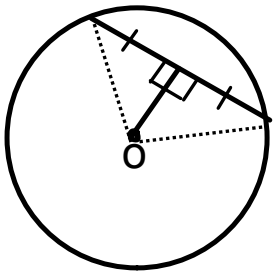
<___= <___= 90° (Chord P)

If 90° is indicated

___ = ____(Chord P)

a line coming from the centre of the circle

- hits chord at a 90° angle
- cuts the chord into two equal pieces



To solve unknown sides :

Pythagorean Theorem

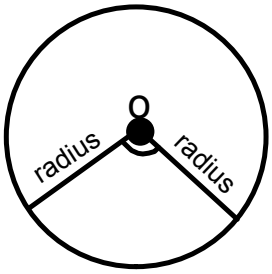
To solve unknown angles :

SATT

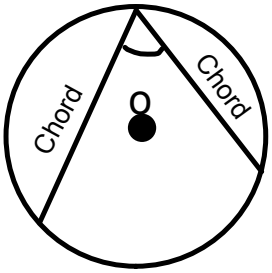
ITT

Circle Properties

Central Angle

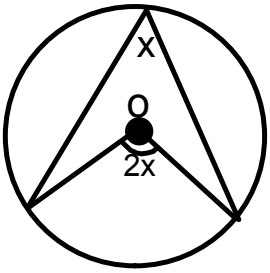


Inscribed Angle



Property # 1: Central & Inscribed Angles

< ___= __° (ins/cent >, $\overset{\frown}{\ \ }$)

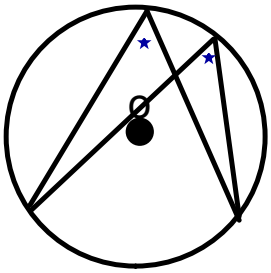


- The central angle is double the inscribed angle

- The inscribed angle is half the central angle

Property # 2: Inscribed Angles

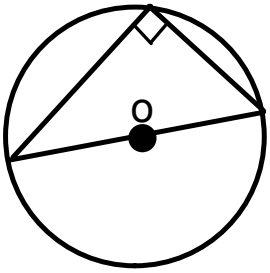
< ___= __° (ins >, $\overset{\frown}{\ \ }$)



- Inscribed angles coming from the same arc are equal

Property # 3: Inscribed from Diameter

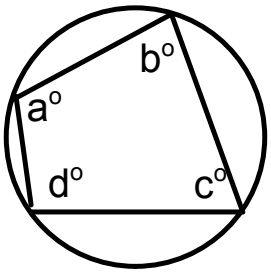
< ___= __° (ins >, diam)



- Inscribed angles coming from the diametre are 90°

Property # 4: Cyclic Quadrilateral

< ___= __° (CyQuad)



- Opposite angles in a cyclic quad must add up to 180°

$a^\circ + c^\circ = 180^\circ$

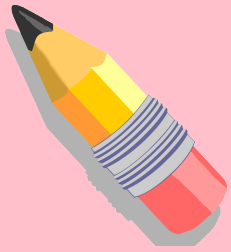
$b^\circ + d^\circ = 180^\circ$

Homework:

TEST Tomorrow

p.418 - 419

#		
	1	8
	2	9
	5	10
	6	
	7	



Practice Test page 420

1,2,3

Attachments

CSI Crime Scene Investigation.mp3

Worksheet - Angles in a Circle.doc