Circle Properties

A line that intersects a circle at only **ONE POINT** is a tangent to the circle

The point where the tangent intersects the circle is the

point of tangency.

Point V -> point of tanguey

SW - chool

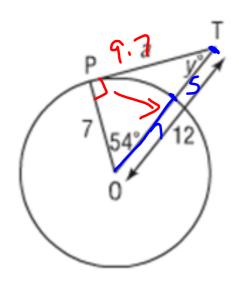
PQ -> tangent

OV -> Radius

\Q

perpendicular per bissector

Circle Properties

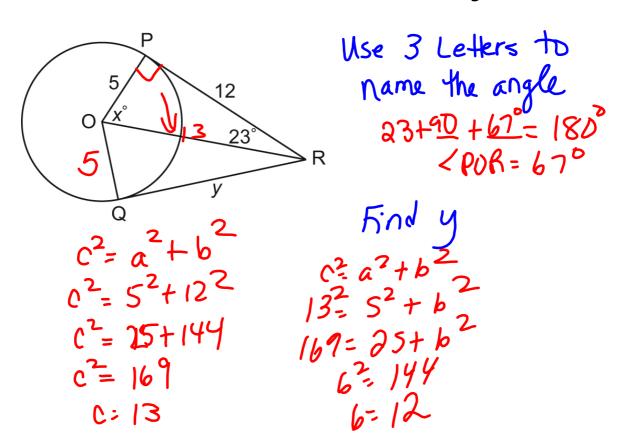


Solve for <PTO

Solve for a

$$(2^{2} - a^{2} + b^{2})$$
 $(2^{2} - a^{2} + b^{2})$
 $(2^{2} - a^{2} +$

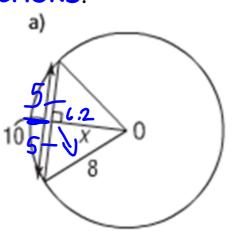
Solve for x and y



Solve for x:

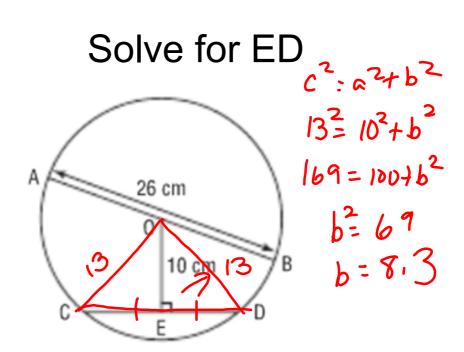
A line segment that joins two points on a circle

is a CHORD.



$$C^{2} = a^{2} + b^{2}$$

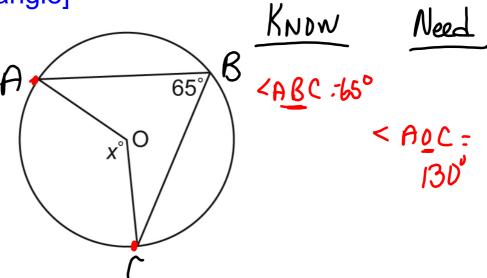
 $8^{2} = 5^{2} + b^{2}$
 $64 = a^{2} + b^{2}$
 $b^{2} = 39$
 $b^{2} = 6.2$



Inscribed Angles

[The inscribed angle is half the size of the

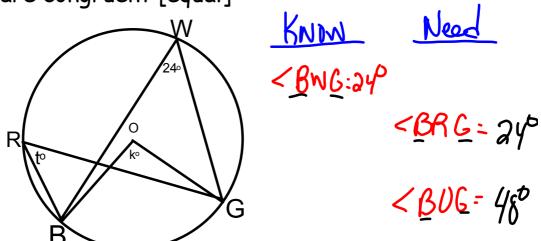
central angle]



Inscribed Angles Property

In a circle, all of the inscribed angles subtended by the

same arc are congruent [equal]



Angles in a Semicircle Property

