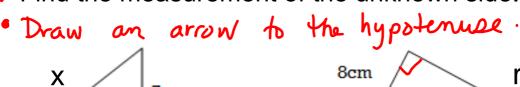
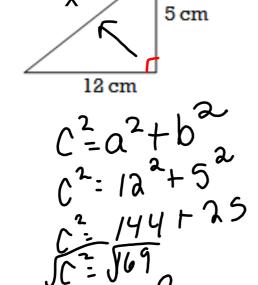
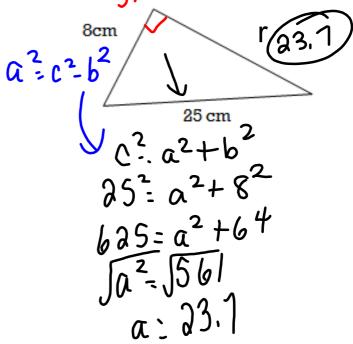


c<sup>2</sup>= $a^2$ + $b^2$  \*the longest side \*opposite the right angle

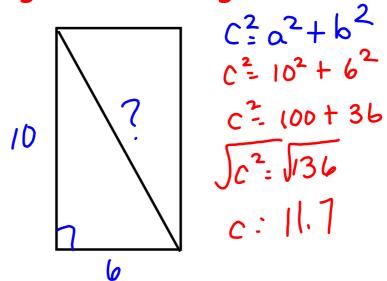
Find the measurement of the unknown side.

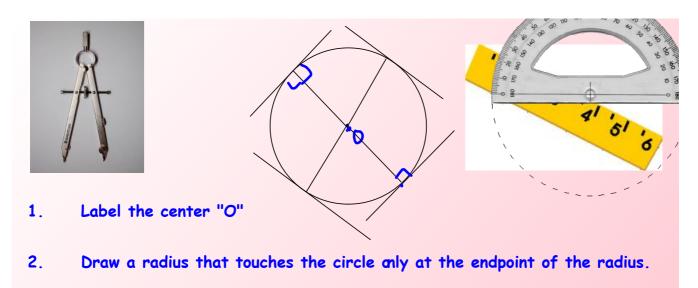






A rectangle has base 6 and height 10. What is the length of the diagonal?





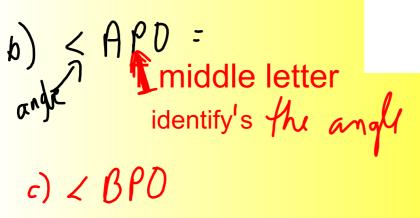
- 3. Draw a line to touch the radius and passes on the outside of the circle
- 4. Repeat steps 2-3 THREE times
- 5. Measure the angle between the radius and the line.

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

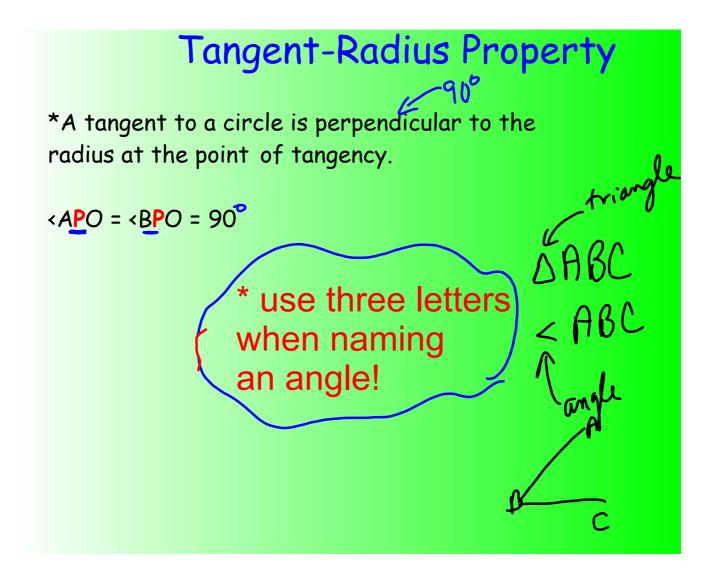
\*The point where the tangent intersects the circle is the point of tangency.

\*Line AB is a TANGENT to the circle with center O

Point P is the point of tangency

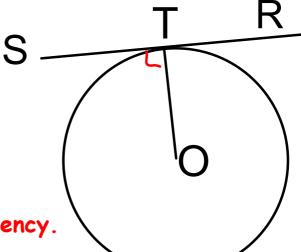








1. Identify the radius.



TO, OT

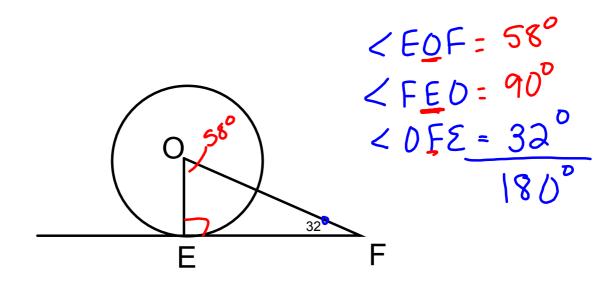
2. Identify the point of tangency.

3. Name the tangent

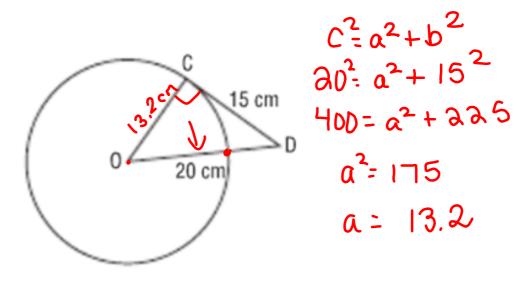
4. What is the relationship between the tangent and the radius? They form a 91° angle  $\angle STO$ 

radius? They form a 90° angle 25TO 5. Name two angles that equal 90°? LRTD

## Name and identify all angles in △EOF

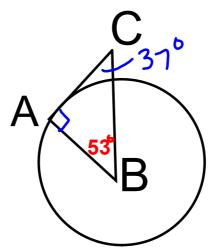


Determine the length of OC to the nearest tenth.

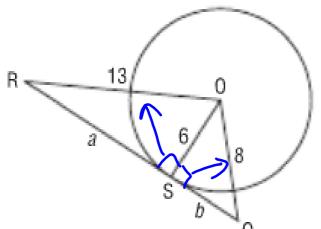


11

- a) Find the value of <ABC = 53°
- b) Find the value of <ACB = 37<sup>6</sup>



c. Identify the tangent, AC or CA



## Find RS and SQ

$$RS = 11.5$$
 $C^{2} = a^{2} + b^{2}$ 
 $13^{2} = a^{2} + b^{2}$ 
 $169 = a^{2} + 3b$ 
 $a^{2} = 133$ 
 $a = 11.5$ 

$$5a = 5.3$$
 $c^{2} = a^{2} + b^{2}$ 
 $8 = 6^{2} + b^{2}$ 
 $64 = 30 + b^{2}$ 
 $6:5.3$ 

## Homework/Classwork



```
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3, 4, 5, 6 <a>b</a>, b)c
7,8,12,13,14,
17
```

\*\*\*NAME ALL ANGLES **USING THREE** 

LETTERS!!!!!!!!!!! SKETCH CIRCLES!!!