Wrap Up to Tangents

Only two ways to solve Tangent Problems:

- Angle sum of a triangle
 180° 90° given angle = unknown angle
- 2) Pythagorean Theorem

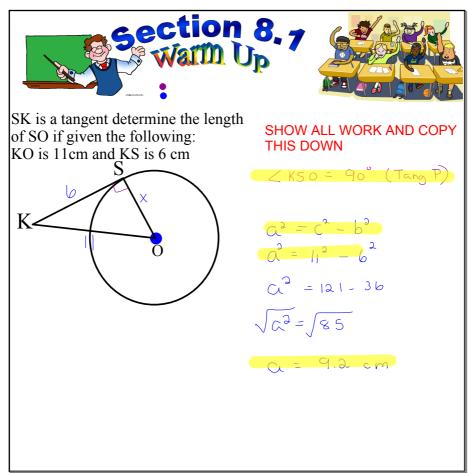
$$c=\sqrt{a^2+b^2}$$

Hypotenuse

$$a = \sqrt{c^2 - b^2}$$

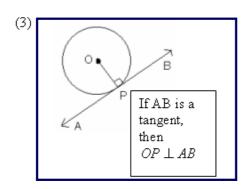
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Leg

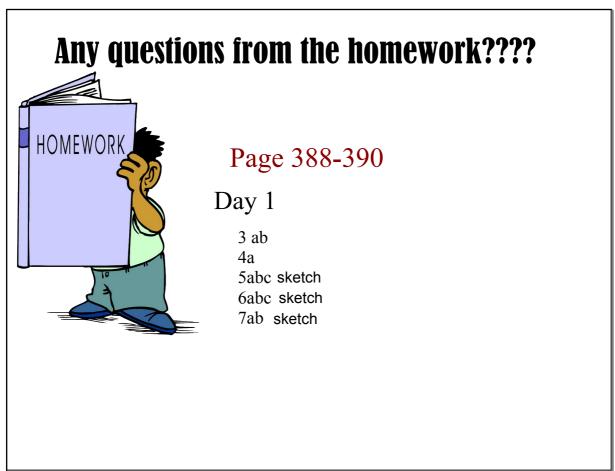


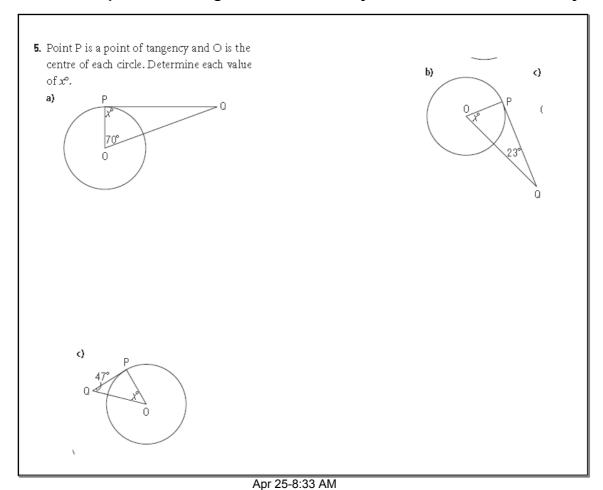
Tangent Property:

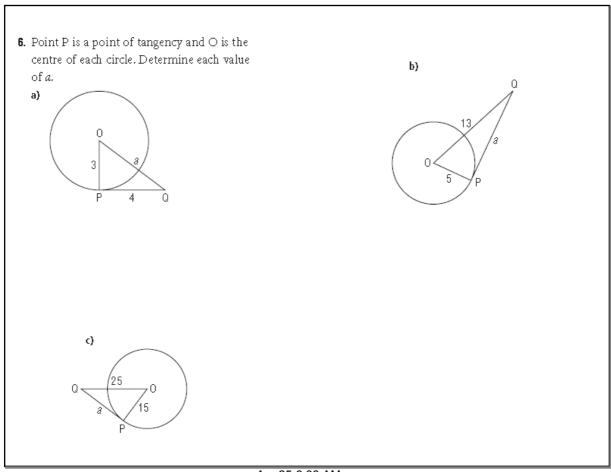
A tangent to a circle is perpendicular to the radius at the point of tangency. $\langle APO = \langle BPO = 90 \rangle$



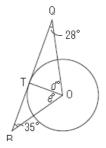
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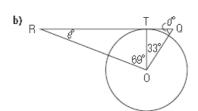






- Point T is a point of tangency and O is the centre of each circle. Determine each value of d° and e°.
 - a)

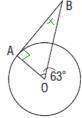




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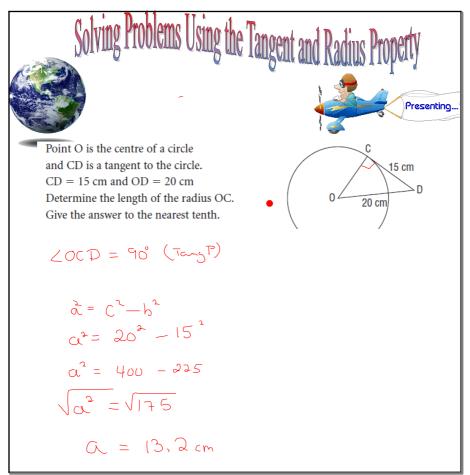
Point O is the centre of a circle and AB is a tangent to the circle. In $\triangle OAB$, $\angle AOB = 63^{\circ}$ Determine the measure of $\triangle OBA$.



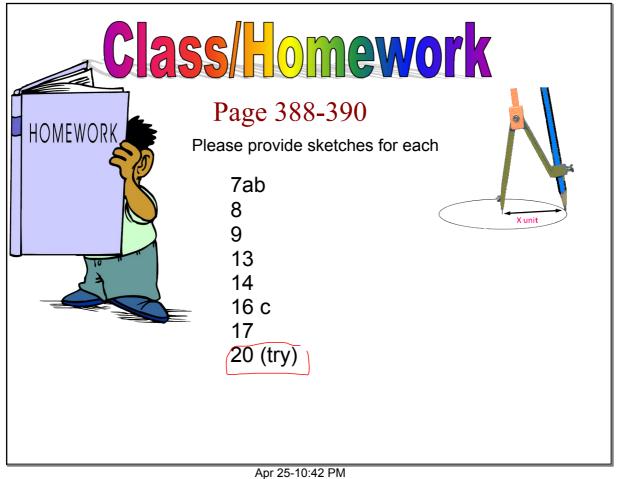
► A Solution

$$\angle OBA = 180 - 90 - 63$$

= 27°



Apr 25-10:16 PM



Section 8.1 Sticky Note Activity.docx