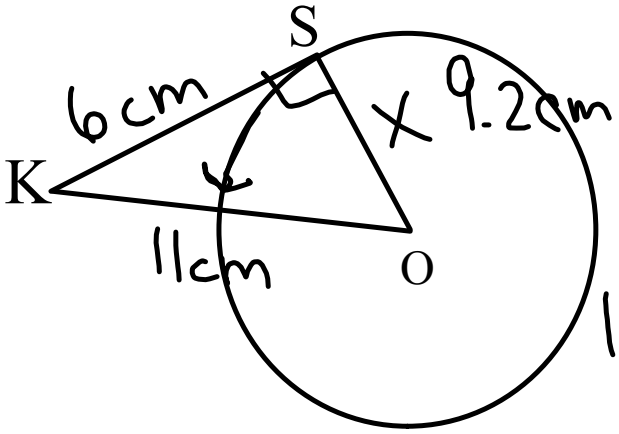
Section 8.1 Warm Up

SK is a tangent determine the length of SO if given the following:
KO is 11cm and KS is 6 cm

SHOW ALL WORK AND COPY THIS DOWN



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

$11^2 - 6^2 = a^2$

$121 - 36 = a^2$

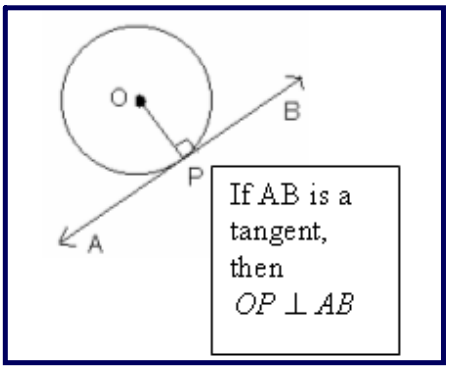
$\sqrt{85} = \sqrt{a^2}$

$9.2 = a$

Tangent Property:

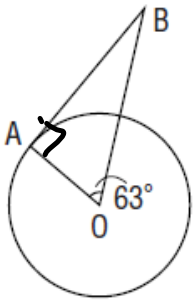
A tangent to a circle is perpendicular to the radius at the point of tangency. <APO = <BPO = 90°

(3)



Solving Problems Using the Tangent and Radius Property

Point O is the centre of a circle and AB is a tangent to the circle. In ΔOAB, $\angle AOB = 63°$ Determine the measure of $\angle OBA$.



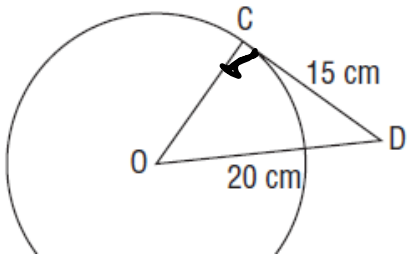
▸ ***A Solution***

$180 - 63 - 90$

$\angle OBA = 27°$

Solving Problems Using the Tangent and Radius Property

Point O is the centre of a circle
and CD is a tangent to the circle.
CD = 15 cm and OD = 20 cm
Determine the length of the radius OC.
Give the answer to the nearest tenth.



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

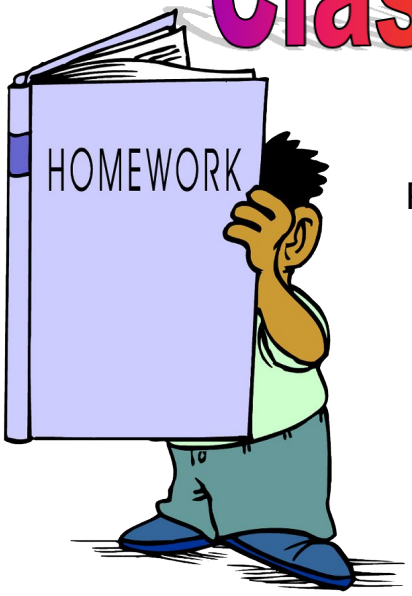
$20^2 - 15^2 = a^2$

$400 - 225 = a^2$

$\sqrt{175} = \sqrt{a^2}$

$13.2 = a$

Class/Homework

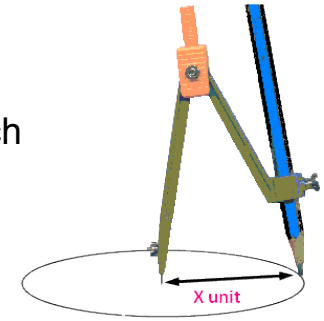


Page 388-390

Please provide sketches for each

3 ab
4a
5abc sketch
6abc sketch
7ab sketch

8
9
13
14
16 c
17
20 (try)



Attachments

Section 8.1 Sticky Note Activity.docx