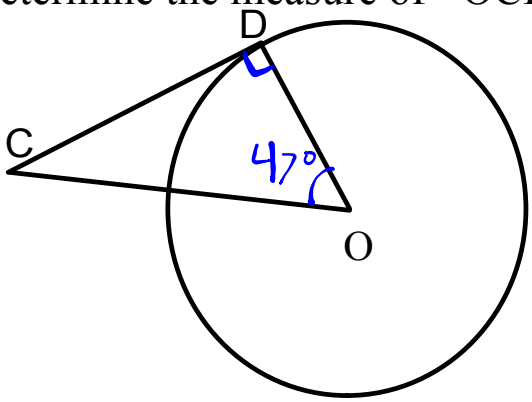
Section 8.7 Warm Up

May 11, 2017

1) Point O is the centre of a circle and CD is a Tangent to the circle. In ΔOCD, <COD = 47°. Determine the measure of <OCD.



SHOW ALL WORK AND COPY THIS DOWN

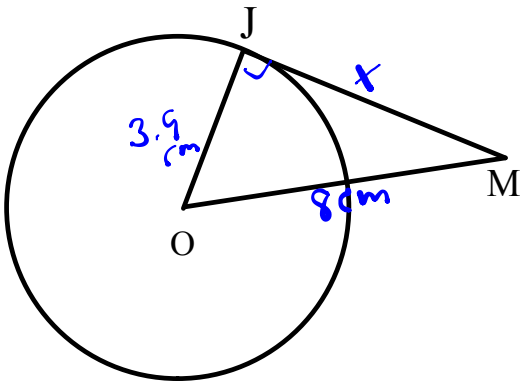
$\angle OCD = 180 - 90 - 47$
$= 43°$

DAY 2

Using the Pythagorean Theorem in a Circle

2) Point O is the center of a circle and JM is a tangent to the circle. The radius 3.9 cm and OM = 8 cm. Determine the length of the tangent line. Give the answer to the nearest tenth.

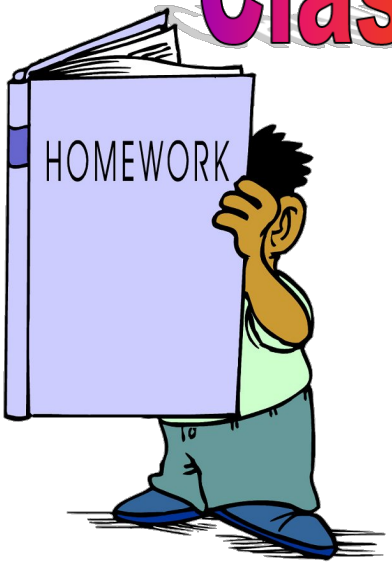
(Show all Work)



$a^2 = c^2 - b^2$
$x^2 = 8^2 - 3.9^2$
$= 64 - 15.21$
$= 48.79$
$x = \sqrt{48.79}$
$= 6.98\text{cm}$

Remember:
$a^2 + b^2 = c^2$
$c = \sqrt{a^2 + b^2}$
or
$a = \sqrt{c^2 - b^2}$

Class/Homework



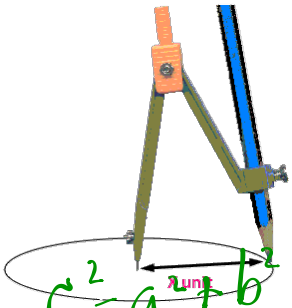
Page 388-390

Day 1

3 ab
4a
5abc
6abc
7ab
8

Day 2

9
12
13
14
16c
17
18



$c^2 = a^2 + b^2$
$a^2 = 3^2 + 8^2$
$= 9 + 64$
$= 73$
$a = \sqrt{73}$
$= 8.5$

Attachments

Section 8.1 Sticky Note Activity.docx