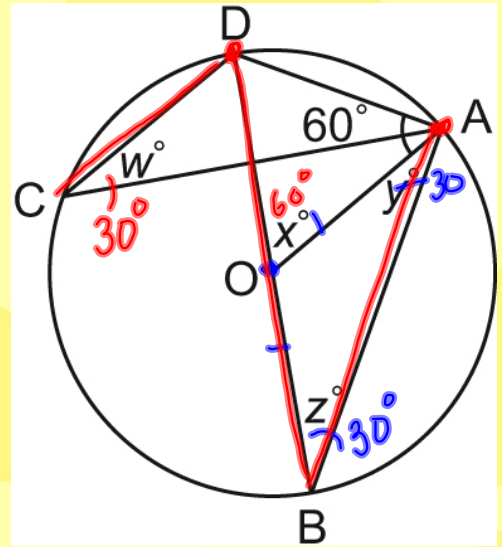
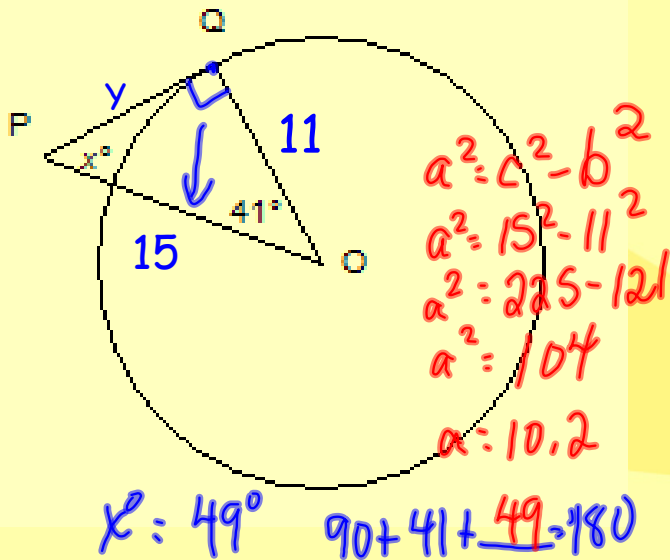
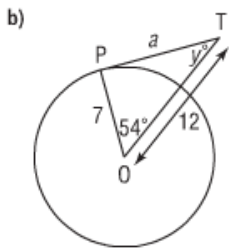


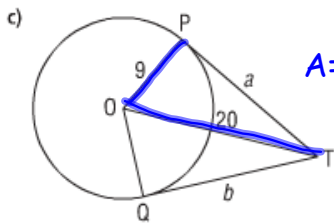
WARM-UP





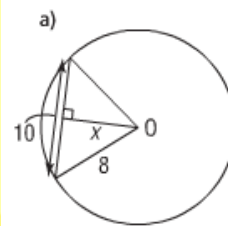
$$A=9.7$$

$$Y=36^\circ$$

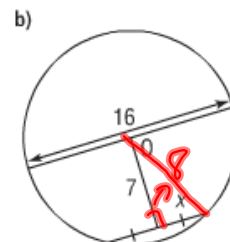


$$A=B=17.9$$

5. Point O is the centre of each circle.
Determine each value of x .
Justify your answers.



$$X=6.2$$

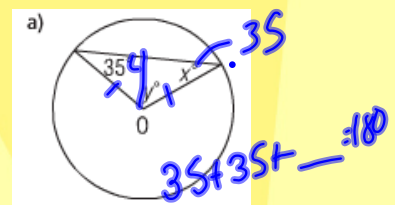


$$X=3.9$$

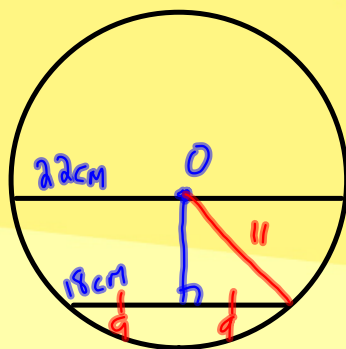
$$\begin{aligned}
 a^2 &= c^2 - b^2 \quad * \\
 &= 8^2 - 7^2 \\
 &= 64 - 49 \\
 &= \sqrt{15} \\
 &= 3.9
 \end{aligned}$$

6. A dream catcher with diameter 22 cm is strung with a web of straight chords. One of these chords is 18 cm long.

- Sketch a diagram.
- How far is the chord from the centre of the circle? Justify your solution strategy.



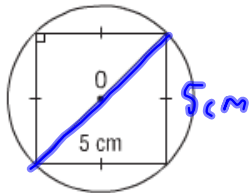
6.3



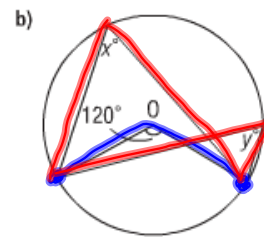
$$X=35$$

$$Y=110$$

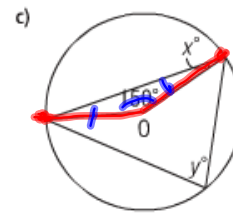
8. A square has side length 5 cm. It is inscribed in a circle, centre O. What is the length of the radius of the circle? How do you know?



3.5 CM



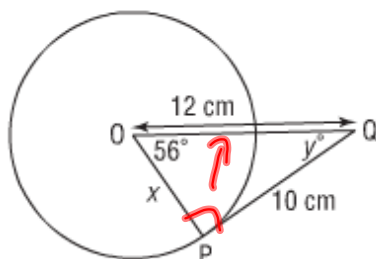
$$X=Y=60$$



$$X=15$$

$$Y=75$$

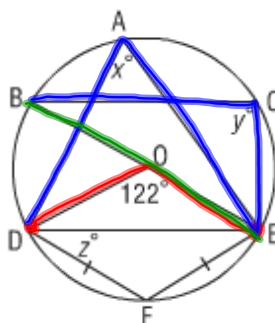
1. Point O is the centre of the circle.
Point P is a point of tangency.
Determine the values of x and y° .
Give reasons for your answers.



$$x = 6.6 \text{ cm}$$

$$y = 34$$

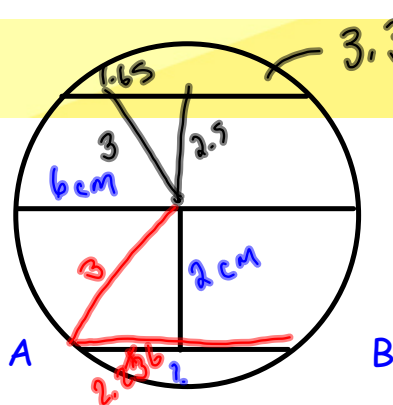
2. Point O is the centre of the circle.
Determine the values of x° , y° , and z° .
Which circle properties did you use each time?



$$x = 61$$

$$y = 90$$

3. A circle has diameter 6.0 cm. Chord AB is 2.0 cm from the centre of the circle.
a) Sketch a diagram.
b) How long is the chord AB?
c) Another chord, CD, in the circle is 2.5 cm from the centre of the circle.
Is chord CD longer or shorter than chord AB? Justify your answer.



b. 4.5 cm

c. shorter



TEST TOMORROW

Work on Review Sheet
for Extra Practice!

Attachments

extra practice.doc