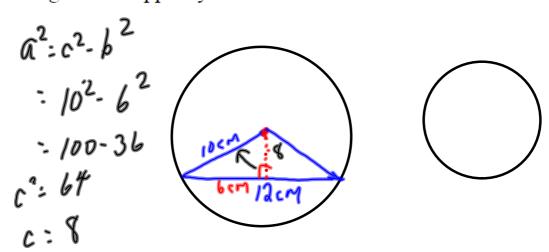
Warm-Up Part 2

A circle with radius 10 cm has a chord with length 12 cm. How far from the centre of the circle is the chord? Draw a diagram to support your solution.



3. Point O is the centre of each circle. Determine the values of d° , e, and f.

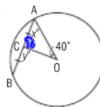


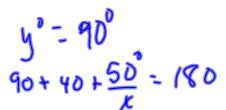






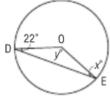
4. Point O is the centre of each circle. Determine each value of x° and y° .

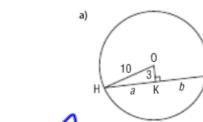




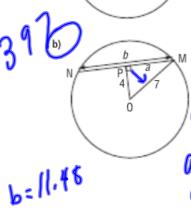
5. Point O is the centre of each circle. Determine each value of a and b.

b)



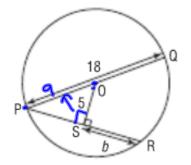




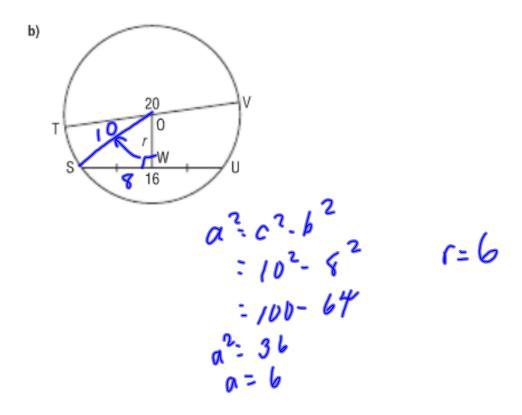




6. Point O is the centre of the circle. Determine the value of *b*. Which circle properties did you use?



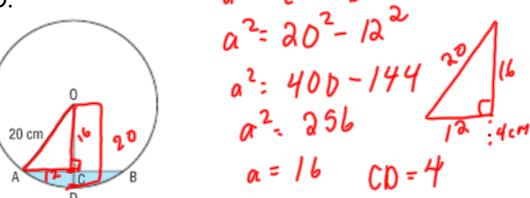
$$a^{2} = c^{2} - b^{2}$$
 $a^{2} = 9^{2} - 5^{2}$
 $a^{2} = 81 - 35$
 $a^{2} = 5b$
 $a = 7.5$

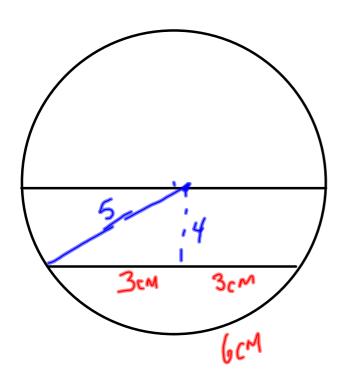


The radius of the pipe below is 20 cm. Water fills less than one-half of the pipe. The surface of the water AB is 24 cm wide.

Determine the maximum depth of the water, which is the depth CD. $a^2 - c^2 - b^2$

depth CD.





If the diameter is
10 cm how long is
the chord If it is \$\\\
cm from the center
to the chord?

$$a^{2} = c^{2} - b^{2}$$
 $a^{2} = 5^{2} - 4^{2}$
 $a^{2} = 5^{2} - 16$
 $a^{2} = 9$
 $a = 3$

Homework

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7[a], 10,11,14, 15