

10.6 quick practice

Wednesday, March 1, 2017 10:20 AM

A series of horizontal blue lines for writing, with a vertical red margin line on the left side.

PRACTICE!!!

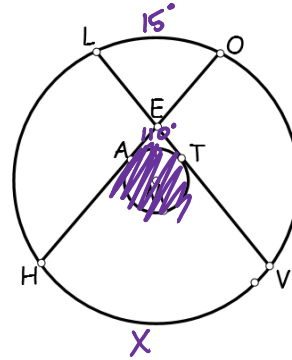
1. Given: Two circles are concentric with center M.
 \overline{LV} and \overline{OH} are tangent to the smaller circle.
 $m\widehat{AT} = 70^\circ$ $m\widehat{LO} = 15^\circ$

Find $m\widehat{HV}$

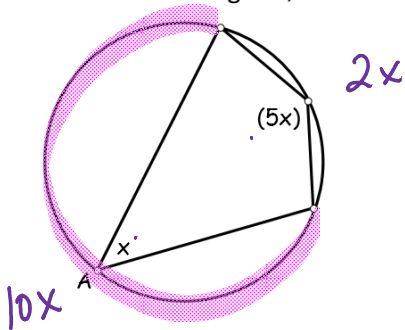
$$\frac{1}{2}(15+x) = 110$$

$$15+x = 220$$

$$x = 205$$



2. In the diagram, find $m\angle A$.



$$10x + 2x = 360$$

$$12x = 360$$

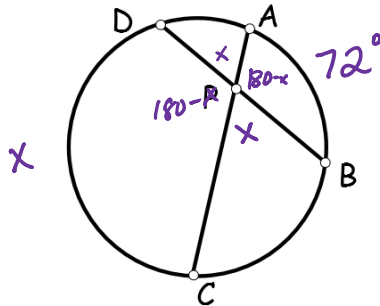
$$x = 30$$

3. Given:

$$m\widehat{AB} = 72^\circ$$

$$m\widehat{DC} = m\angle CPB$$

Find $m\angle APB$



$$180 - x = \frac{1}{2}(x + 72)$$

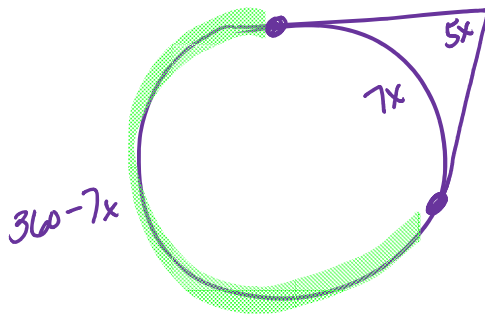
$$360 - 2x = x + 72$$

$$288 = 3x$$

$$96 = x$$

$$m\angle APB = 84^\circ$$

4. Two tangent lines to a circle meet outside the circle to form an angle. If the ratio of the minor intercepted arc to the angle is 7:5, find the measure of the major arc of the circle.



$$7x + 5x = 180$$

$$12x = 180$$

$$x = 15$$

$$7x = 105$$

$$\text{major arc} = 255^\circ$$