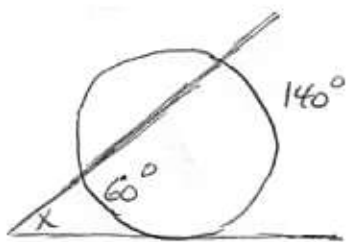


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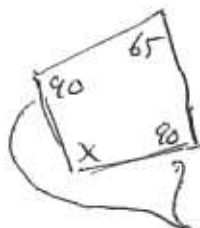
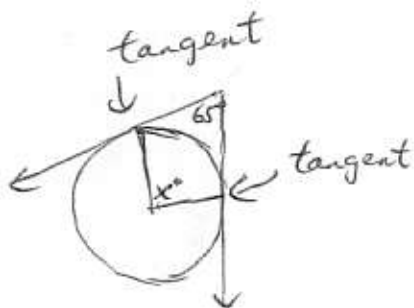


$$m\angle X = \frac{1}{2} (\text{big arc} - \text{small arc})$$

$$= \frac{1}{2} (140^\circ - 60^\circ)$$

$$m\angle X = 40^\circ$$

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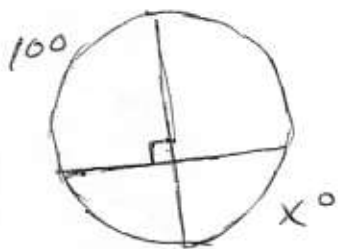
tangents are 90° w/ the radius
at the points of tangency

360° in a quadrilateral

$$\text{So } 360 = X + 90 + 90 + 65$$

$$X = 115^\circ$$

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$$\text{Inside angle} = \frac{1}{2} (\text{big arc} + \text{small arc})$$

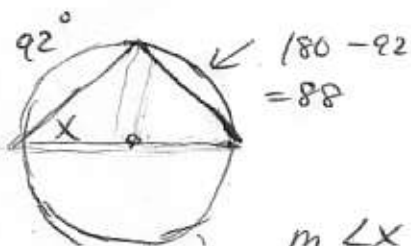
$$90 = \frac{1}{2} (100 + X)$$

Multiply both sides by 2 to
get rid of $\frac{1}{2}$

$$180 = 100 + X$$

$$X = 80$$

60



since the line through the center
bisects the circle (half of 360 is 180)

$$m\angle X = \frac{1}{2} (88) = 44^\circ$$