

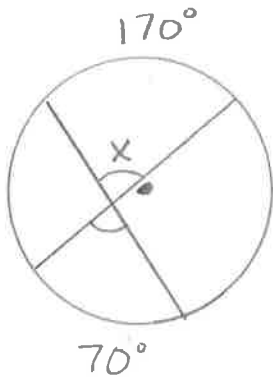
Notes

Relationship:

Angles

formed by intersecting chords

Ex 1



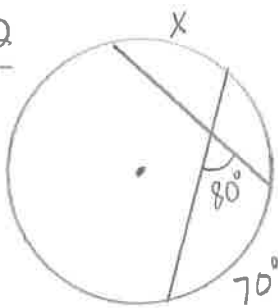
* $\angle x =$ the average of the arcs

$$\frac{170 + 70}{2} = x$$

$$\frac{240}{2} = x$$

$$120^\circ = x$$

Ex 2



$$2 \cdot \frac{x + 70}{2} = 80 \cdot 2 \rightarrow \frac{\text{arc} + \text{arc}}{2} = \text{angle}$$

$$x + 70 = 160$$

$$-70 \quad -70$$

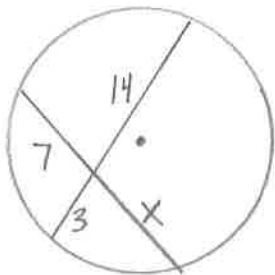
$$x = 90^\circ$$

Relationship:

Chord lengths of intersecting chords

* Part \times Part = Part \times Part

$$P \cdot P = P \cdot P$$



$$14 \cdot 3 = 7 \cdot x$$

same chord same chord

$$42 = 7x$$

$$6 = x$$