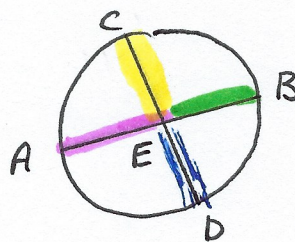


ch 10.7

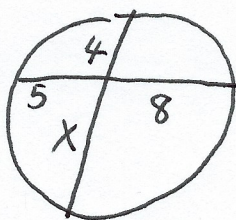
Segments of chords thm
(Intersecting chord thm)

If two chords intersect in a circle, then the products of the lengths of the chord segments are equal.



$$AE \cdot BE = CE \cdot DE$$

#1

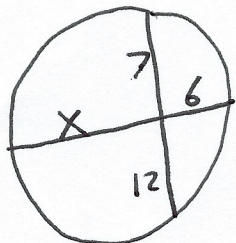


$$4x = 5(8)$$

$$4x = 40$$

$$x = \boxed{10}$$

#2

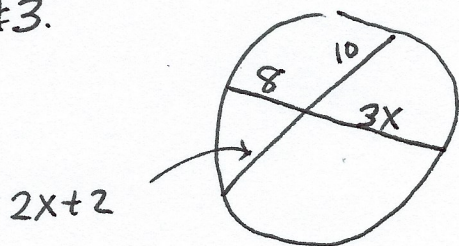


$$6x = 7(12)$$

$$6x = 84$$

$$x = \boxed{14}$$

#3.



$$(2X+2)10 = 3X(8)$$

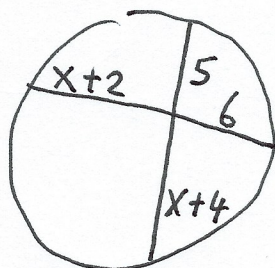
$$20X+20 = 24X$$

$$20 = 24X - 20X$$

$$20 = 4X$$

$$\boxed{5} = X$$

#4.



$$(X+2)6 = 5(X+4)$$

$$6X+12 = 5X+20$$

$$6X-5X = 20-12$$

$$X = \boxed{8}$$