

Circles – Intersecting Chord Properties

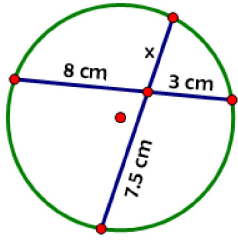
G.C.A.2

Hw Section 13.5

Name _____

Find the measure of each variable, numbered angle or arc.

1.

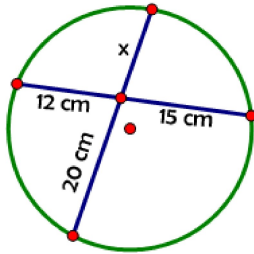


$$x(7.5) = 8(3)$$

$$7.5x = 24$$

$$x = 3.2 \text{ cm}$$

2.

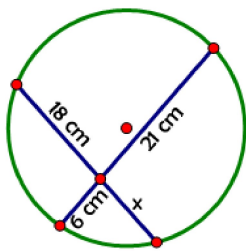


$$20x = 15(12)$$

$$20x = 180$$

$$x = 9 \text{ cm}$$

3.

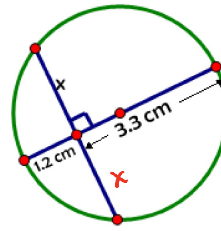


$$18x = 6(21)$$

$$18x = 126$$

$$x = 7 \text{ cm}$$

4.



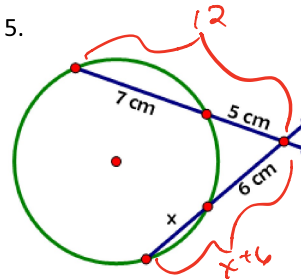
$$x \cdot x = 1.2(3.3)$$

$$x^2 = 3.96$$

$$x = \pm \sqrt{3.96}$$

$$x = \sqrt{3.96} \text{ cm}$$

5.



$$(out)(whole) = (out)(whole)$$

$$(5)(12) = (6)(x+6)$$

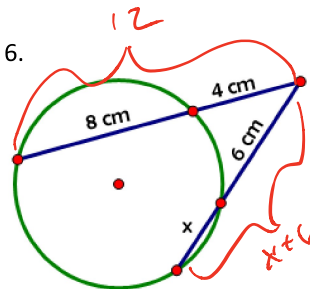
$$60 = 36 + 6x$$

$$24 = 6x$$

$$4 = x$$

$$x = 4 \text{ cm}$$

6.



$$(out)(whole) = (out)(whole)$$

$$(4)(12) = (6)(x+6)$$

$$48 = 6(x+6)$$

$$8 = x+6$$

$$2 \text{ cm} = x$$

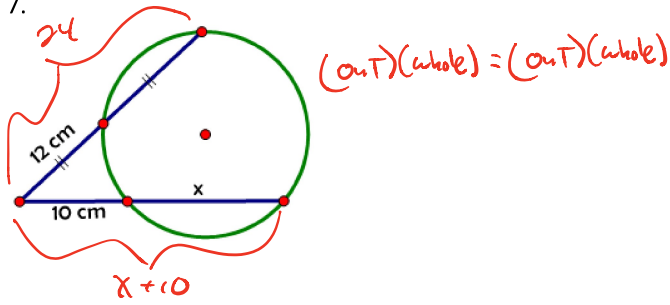
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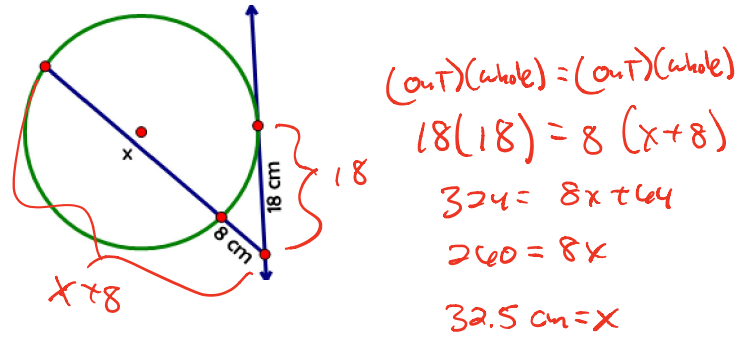
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Name _____

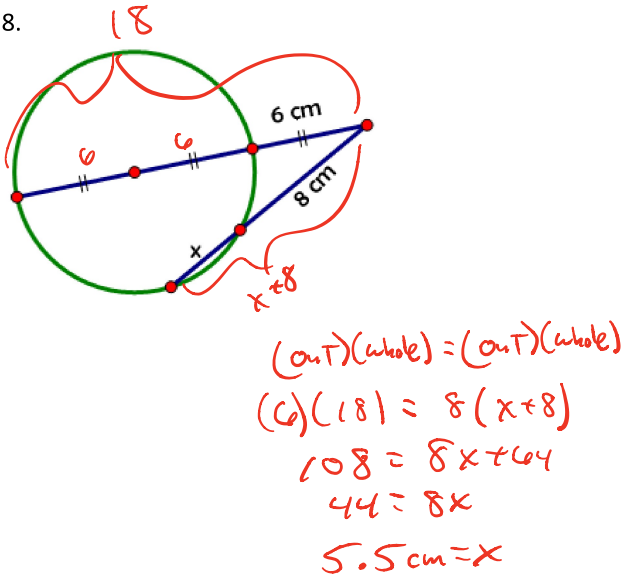
7.



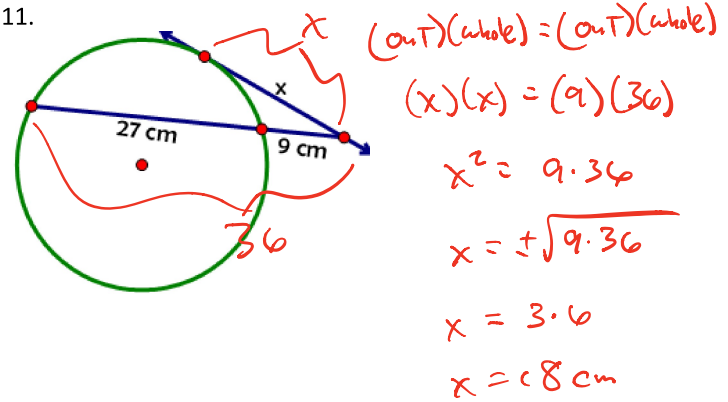
10.



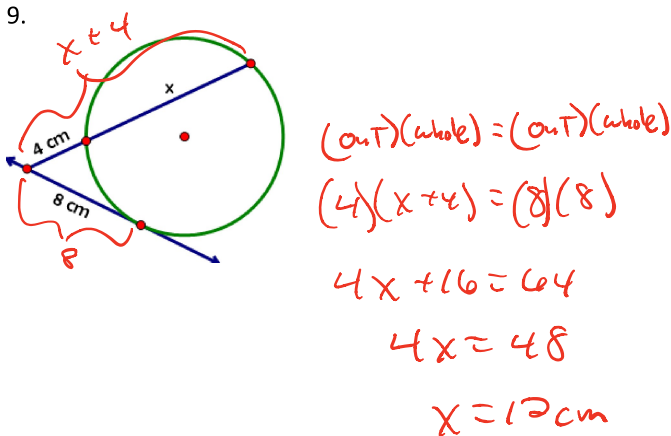
8.



11.



9.



12.

