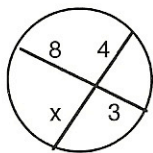


Part III: Use the theorem. Use the given chords and lengths. Write an equation. Solve for x.

1.

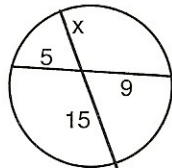


$$4x = (3)(8)$$

$$4x = 24$$

$$x = \underline{\quad}$$

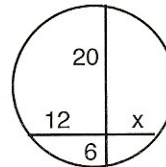
2.



$$15x = (\underline{\quad})(\underline{\quad})$$

$$x = \underline{\quad}$$

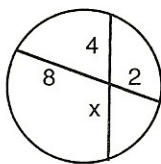
3.



$$\underline{\quad}x = (\underline{\quad})(\underline{\quad})$$

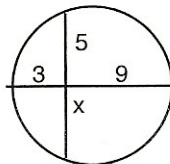
$$x = \underline{\quad}$$

4.



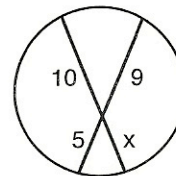
$$x = \underline{\quad}$$

5.



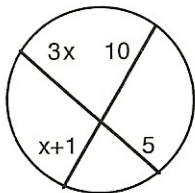
$$x = \underline{\quad}$$

6.



$$x = \underline{\quad}$$

7.

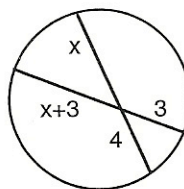


$$(5)(3x) = 10(x+1)$$

$$15x = 10x + 10$$

$$x = \underline{\quad}$$

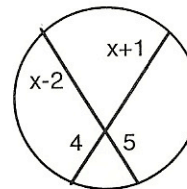
8.



$$(\underline{\quad})(\underline{\quad}) = \underline{\quad}(\underline{\quad} + \underline{\quad})$$

$$x = \underline{\quad}$$

9.



$$x = \underline{\quad}$$