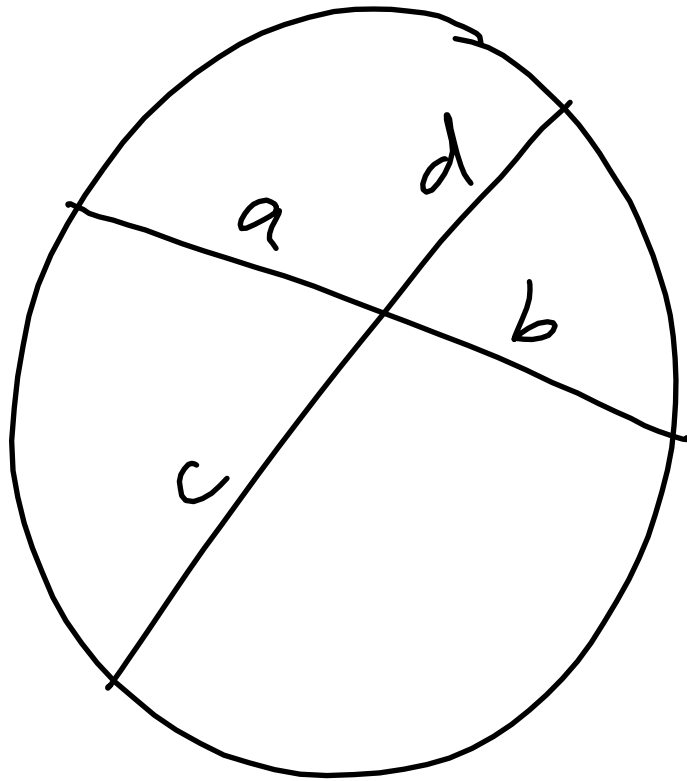
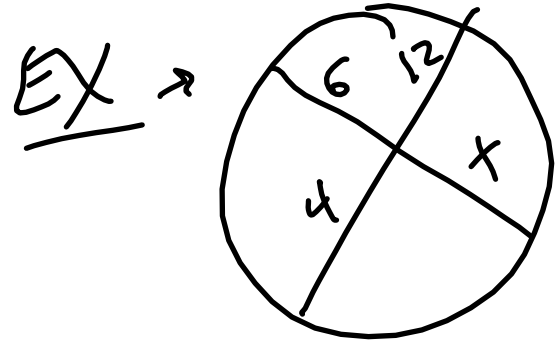


# Segments in Circles



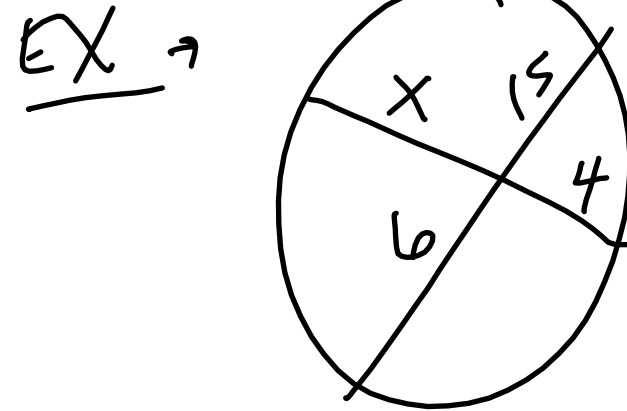
$$a \cdot b = c \cdot d$$



$$6 \cdot x = 12 \cdot 4$$

$$6x = 48$$

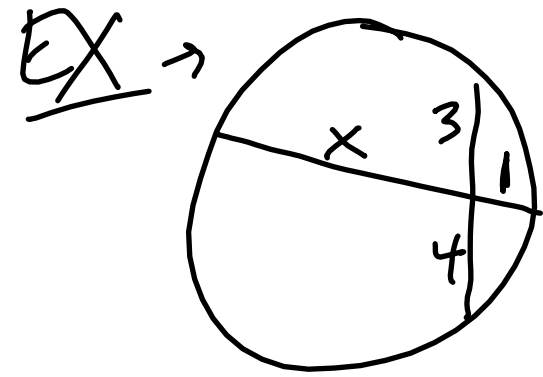
$$x = 8$$



$$4 \cdot x = 6 \cdot 15$$

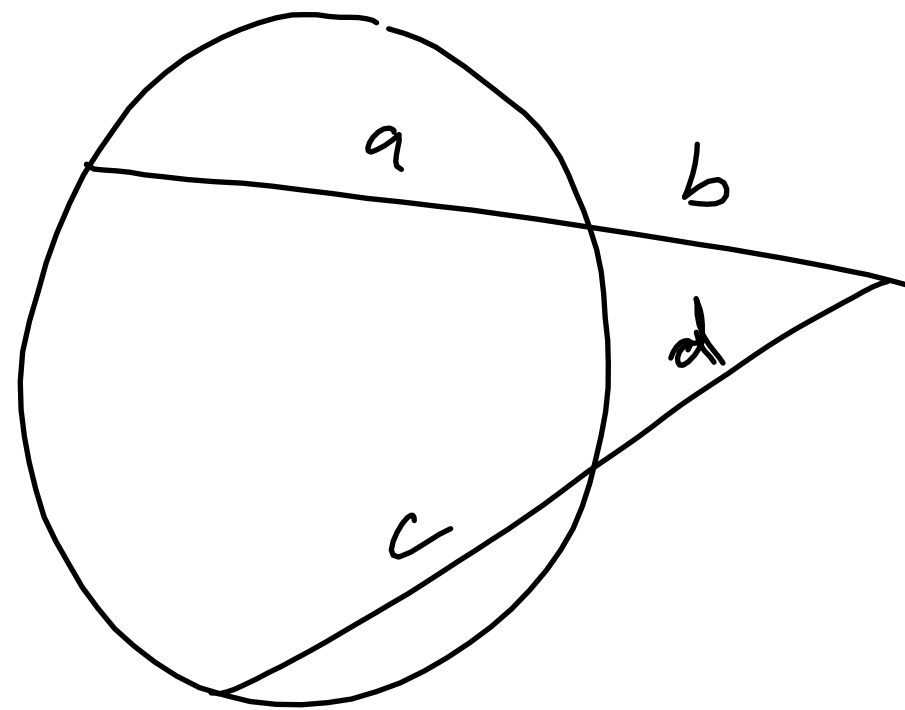
$$4x = 90$$

$$x = 22.5$$

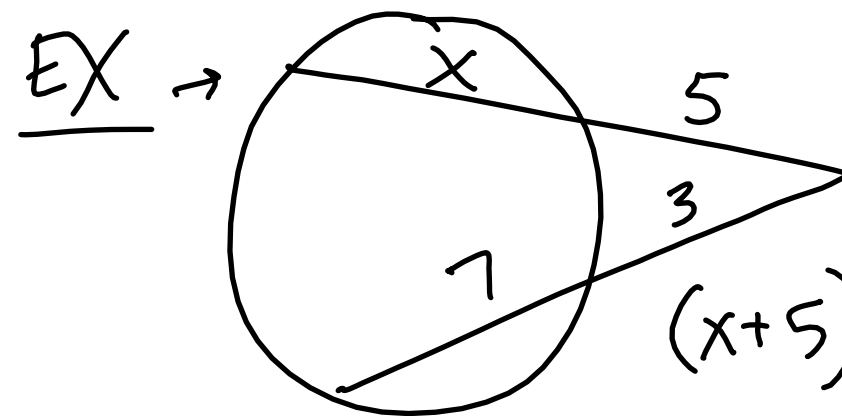


$$x = 3 \cdot 4$$

$$x = 12$$



$$(a+b) \cdot b = (c+d) \cdot d$$



3) 3

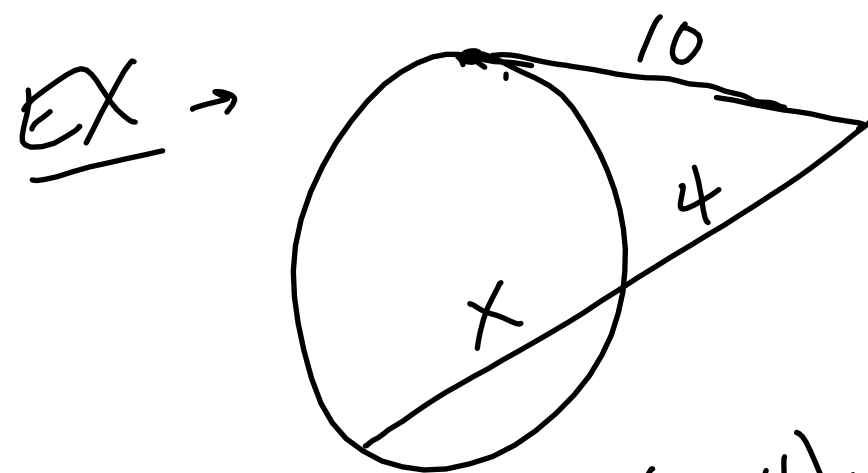
$$(x+5) \cdot 5 = (7+3) \cdot 3$$

$$5x + 25 = (10)(3)$$

$$5x + 25 = 30$$

$$\begin{array}{r} -25 \\ \hline 5x = 5 \end{array}$$

$x = 1$

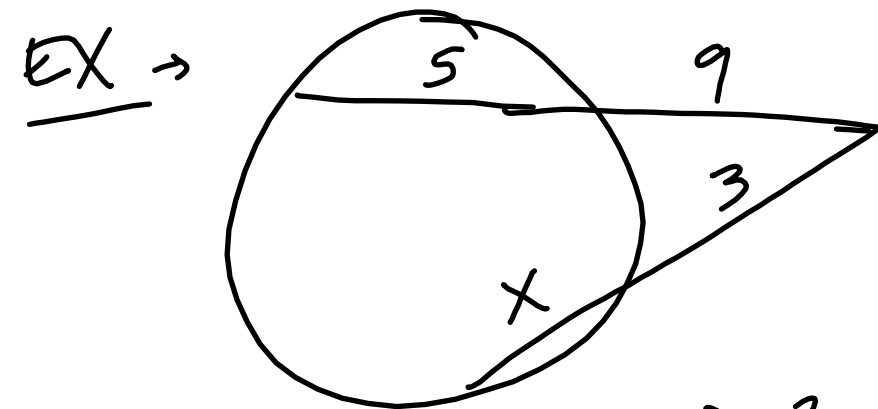


$$(0+10) \cdot 10 = (x+4) \cdot 4$$

$$100 = 4x + 16$$

$$\begin{array}{r} -16 \\ \hline 84 = 4x \end{array}$$

$x = 21$



$$(5+x) \cdot 9 = (x+3) \cdot 3$$

$$14 \cdot 9 = 3x + 9$$

$$126 = 3x + 9$$

$$117 = 3x$$

$x = 39$