Segment Lengths in Circles

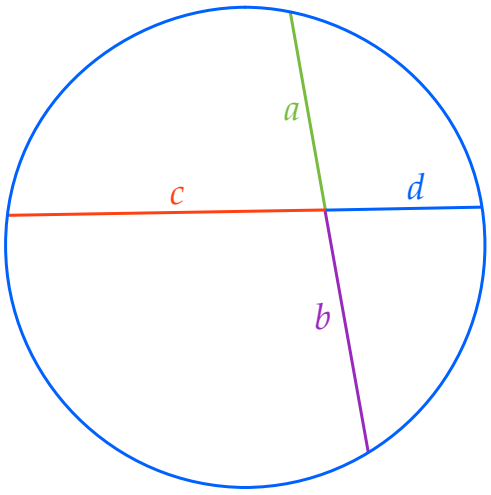
Name _____

Date _____ Period _____

Interior Segments

If two segments intersect inside of a circle... the segment lengths can be determined by the following formula...

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



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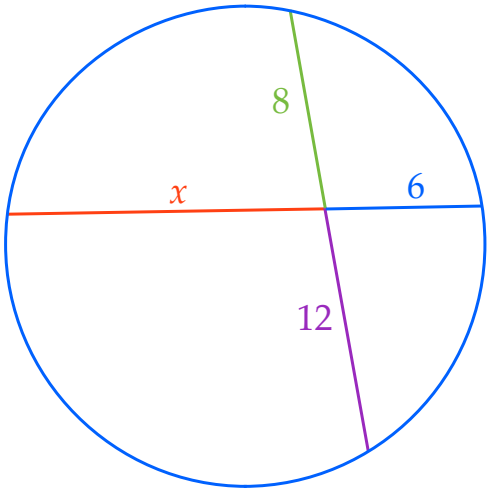
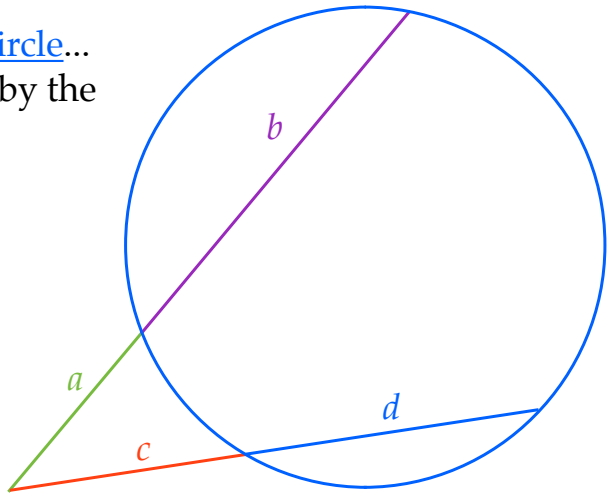


Exterior Segments

If two segments intersect outside of a circle... the segment lengths can be determined by the following formula...

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

outside(whole) = outside(whole)



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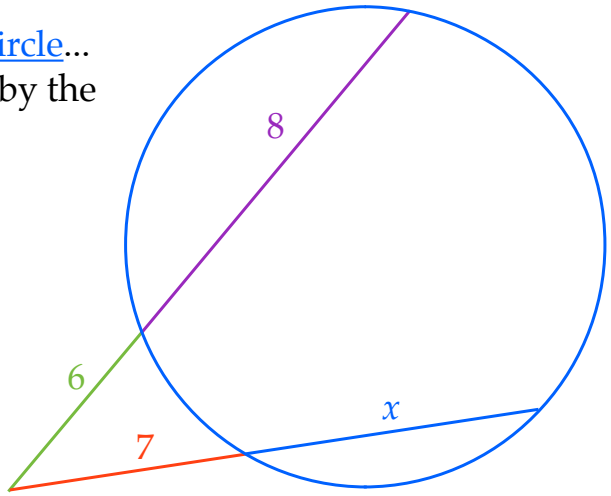


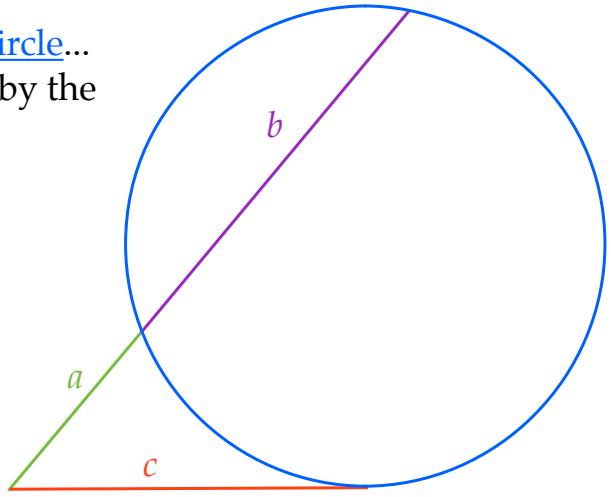
Exterior Segments

If two segments intersect outside of a circle... the segment lengths can be determined by the following formula...

$a(a + b) = c(c)$

outside(whole) = outside(whole)

$a(a + b) = c^2$



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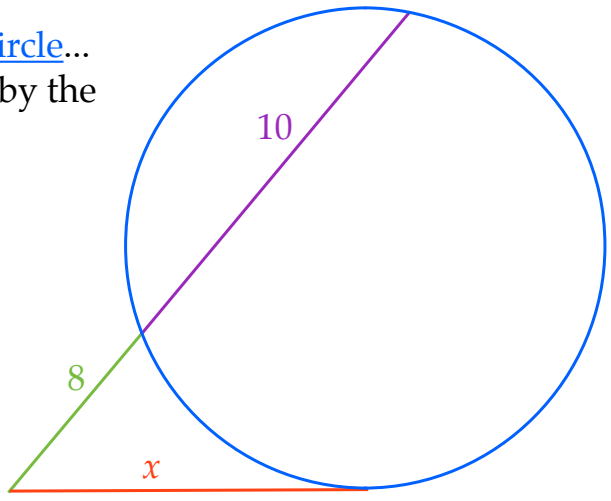
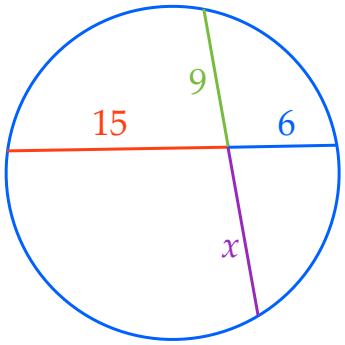
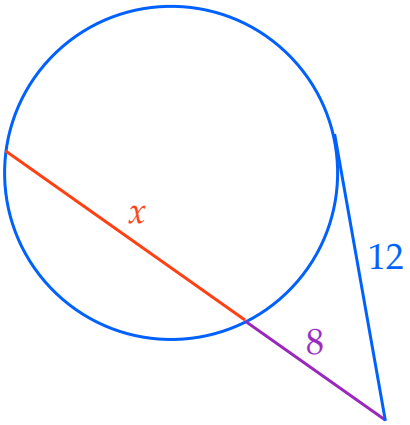


Solve for the value of x.





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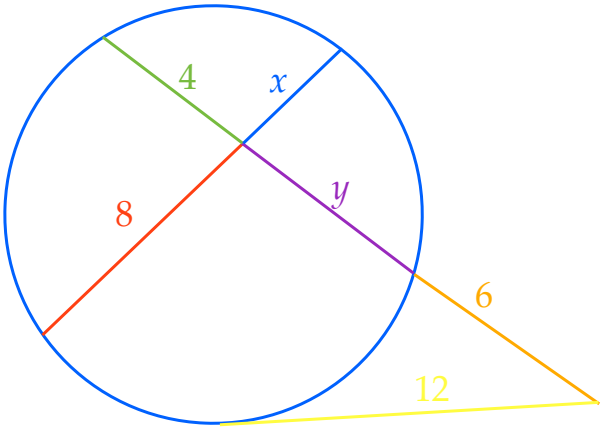
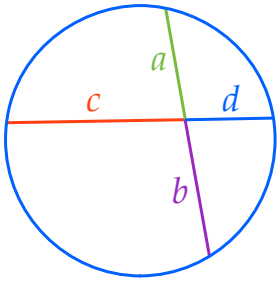


Interior Segments

$a \cdot b = c \cdot d$



Exterior Segments

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