

Relationship between tangent, Secant Side Lengths

<http://www.mathwarehouse.com/geometry/circle/>

Tangent , Secant Side Lengths URL
www.mathwarehouse.com/geometry/circle/tangent-secant-side-length.php

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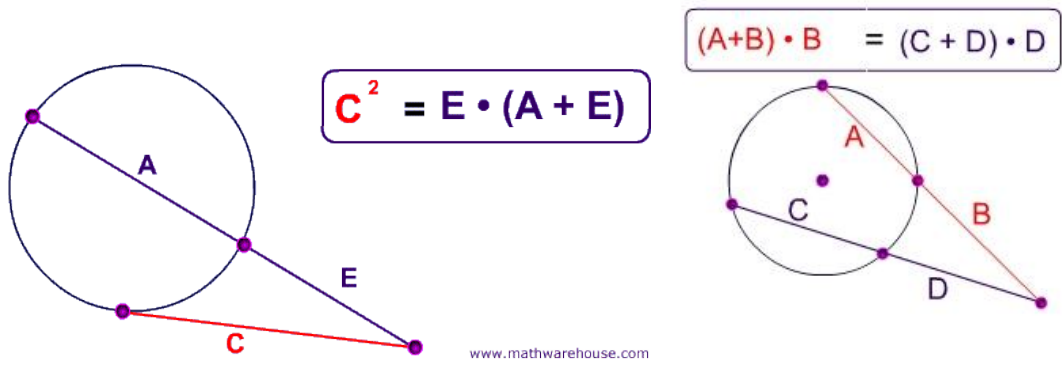
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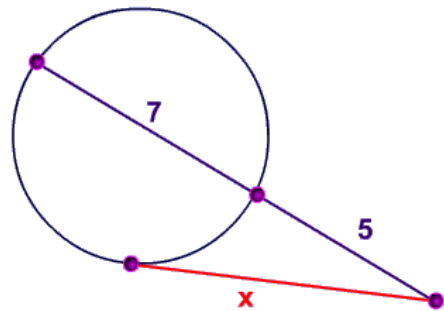
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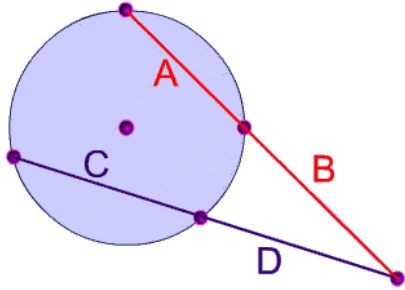
The Formulas



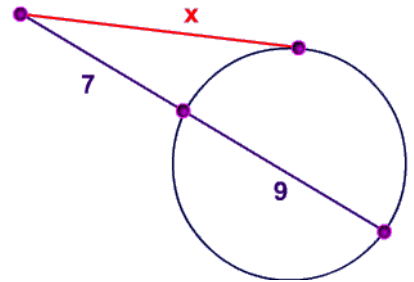
1) What is the value of X below?



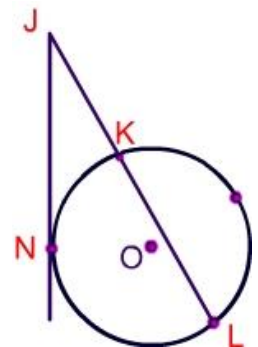
2) In the picture below $B=4$, $C=8$, and $D=5$. What is A ?



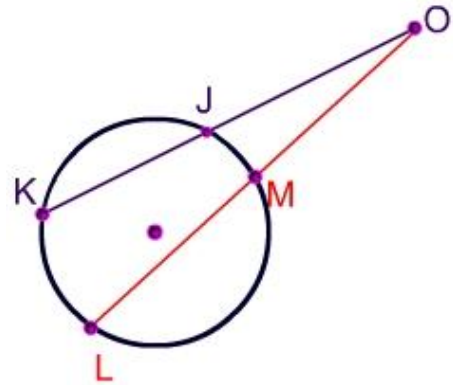
3) What is the value of x in the picture on the right?



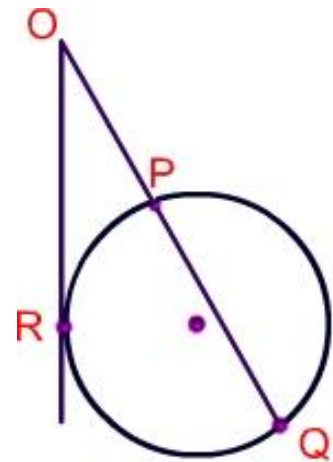
4) $\overline{JN} = 12$ and \overline{KL} is 3 times \overline{JK} . Find the values of \overline{JN} , \overline{KL} and \overline{JK}



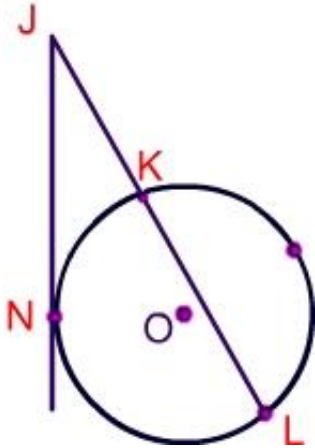
5) What is the value of A if B= 8, C=16, and D = 10?



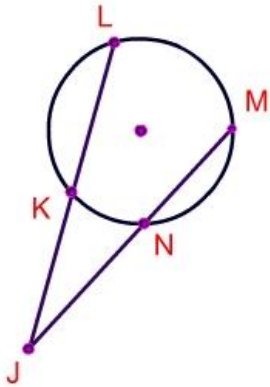
6) $\overline{OR} = 8$, $\overline{PQ} = 12$ find \overline{OQ}



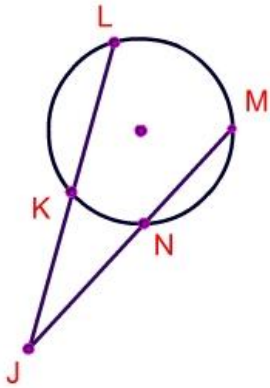
7) $\overline{JN} = 8$, $\overline{JK} = 4$ find \overline{JL}



8) $\overline{JK} = 8$, $\overline{JL} = 25$ find $\overline{JN} = 10$



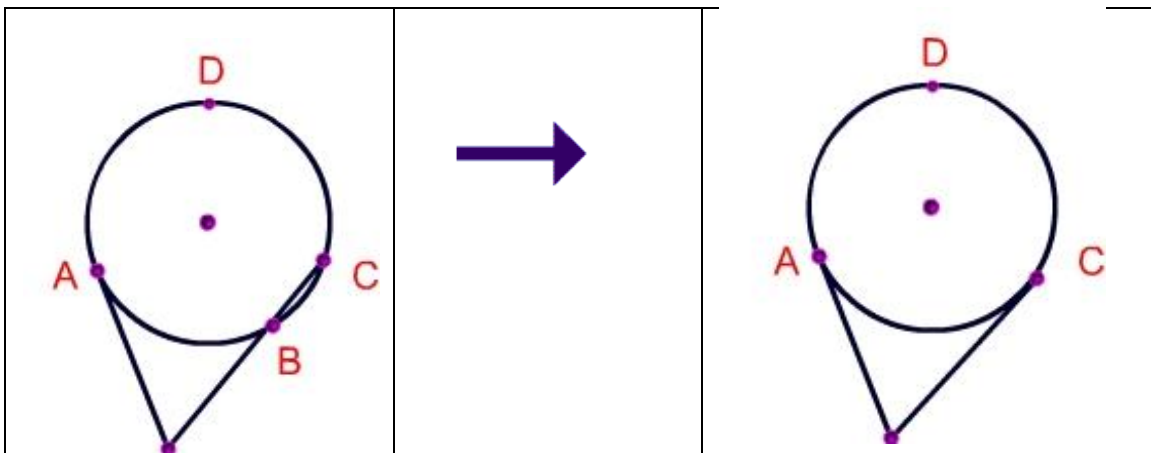
9) $\overline{JN} = 9$, $\overline{JM} = 21$, \overline{JL} is 5 times JK



Think Pair Share

We have learned the formula for a tangent and secant (see the picture on the right). Consider what would happen if point B and Point C are collinear. What do you think might be the relationship between the two line segments?

Explain your reasoning:



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