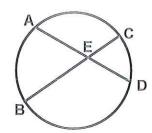
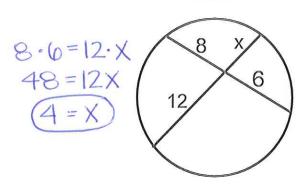
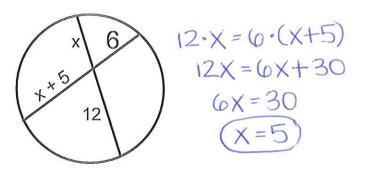
If two chords intersect in the interior of a circle, then the product of the lengths of the segments of one chord is equal to the product of the lengths of the segments of the other chord.

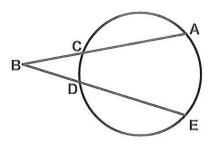


Ex: Solve for x.

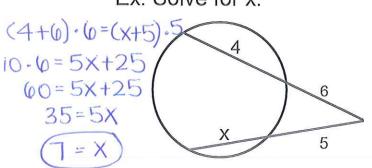


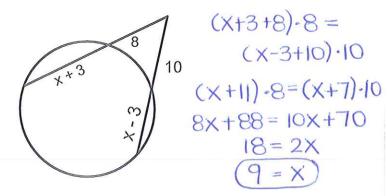


If two secant segments share the same endpoint outside of a circle, then the product of the lengths of one secant segment and its external segment equals the product of the lengths of the other secant segment and its external segment.

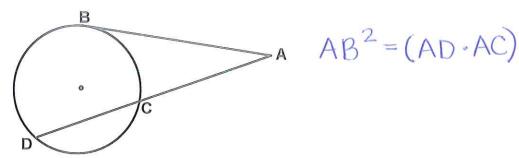


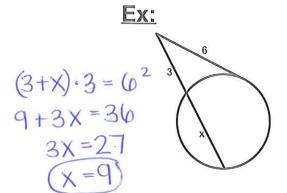
Ex: Solve for x.

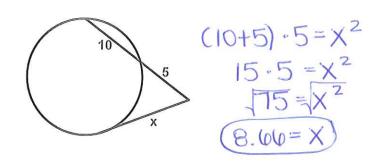




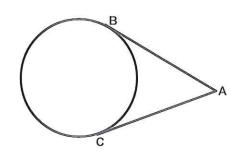
If a secant segment and a tangent segment share an endpoint outside a circle, then the product of the length of the secant segment and its external segment equals the length of the tangent segment squared.



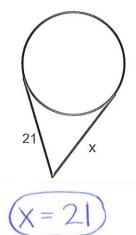


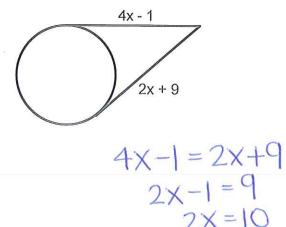


If two segments are tangent to a circle from the same external point, then the segments are congruent.

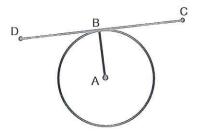


Ex: Solve for x.



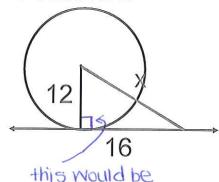


If a line is tangent to a circle, then it is perpendicular to the radius drawn to the point of tangency.



DC\_LAB which means ZDBA and ZCBA are right angles!

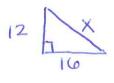
Ex: Solve for x.



a right angle!

This would be a right angle.

So we have a right triangle and can use the Pythagorean. Theorem!



$$12^{2} + 16^{2} = X^{2}$$

$$144 + 256 = X^{2}$$

$$400 = X^{2}$$

$$\sqrt{400} = \sqrt{X^{2}}$$

