## Secant:

| Theorem 10.12 | If two secants of chords intersect in <br> the interior of the circle, then the <br> measure of an angle formed is one <br> half of the sum of the measure of the <br> arcs intercepted by the angle and its <br> vertical angle. |
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1. Find $x$ in the following:

C.

b.

d.


Geometry CP

f.


| Theorem 10.13 | If a secant and a tangent <br> line intersect at the point of <br> tangency, then the measure <br> of each angle formed is $1 / 2$ <br> the measure of of its <br> intercepted arc |
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2. Find the $m /-Q P R$

3. Find the $m / 2$

4. Find the $m \overparen{D E F}$

5. Find the $m \overparen{J L K}$

6. Find the $m /-Q R S$, if $m \overparen{Q T S}=238$

7. Find the $m / L L$

8. Find the $m \overparen{C D}$


## 11. Find the value of $x$

9. Find the $m / \_S$

10. Find the $m \overparen{Q T S}$
11. Find the $m \overparen{X Z}$

