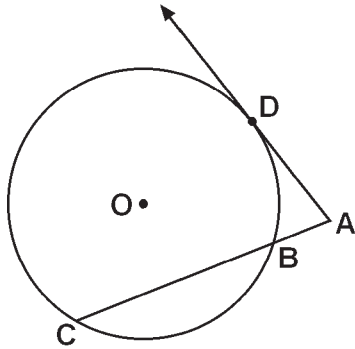


Name: _____
 CC Geometry Homework

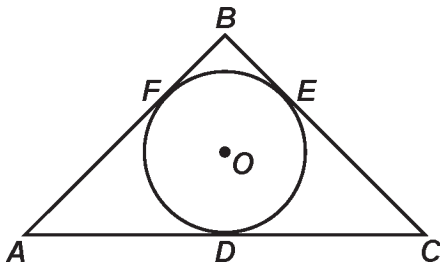
Segments Formed by Secants and Tangents

- 1) In the accompanying figure, \overline{AD} is tangent to circle O at D and \overline{ABC} is a secant.



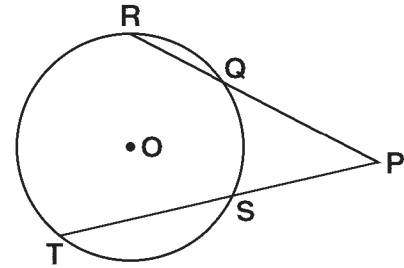
If $AD = 4$ and $AC = 8$, find AB .

- 2) In the diagram below, \overline{AB} , \overline{BC} , and \overline{AC} are tangents to circle O at points F , E , and D , respectively, $AF = 6$, $CD = 5$, and $BE = 4$.



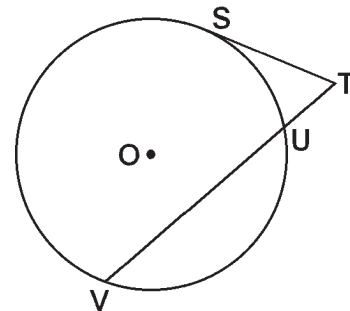
What is the perimeter of $\triangle ABC$?

- 3) In the diagram below, secant segments \overline{PR} and \overline{PT} intersect at P .



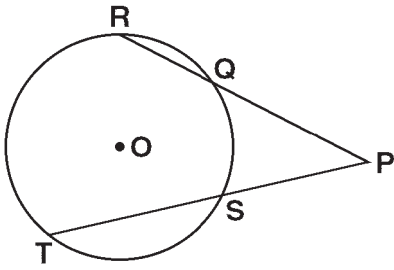
If $PR = 10$, $PQ = 6$, and $PS = 5$, find PT .

- 4) In the accompanying diagram, \overline{TS} is tangent to circle O at S and \overline{TUV} is a secant.



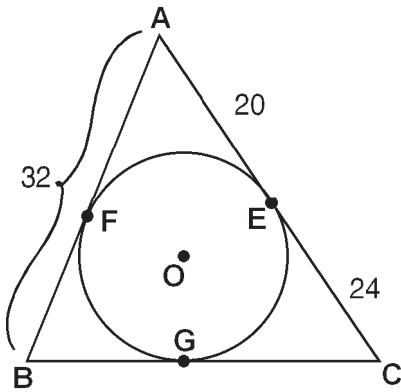
If $TU = 3$ and $UV = 9$, find the length of \overline{TS} .

- 5) In the diagram below, secant segments \overline{PR} and \overline{PT} intersect at P.



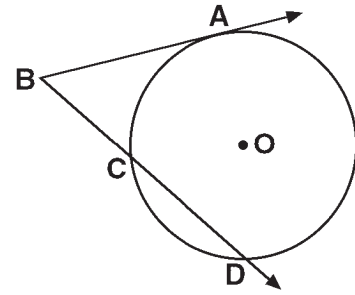
If $PR = 12$, $QR = 8$, and $PT = 16$, find PS .

- 6) In the accompanying diagram, \overline{AFB} , \overline{AEC} , and \overline{BGC} are tangent to circle O at F, E, and G, respectively.



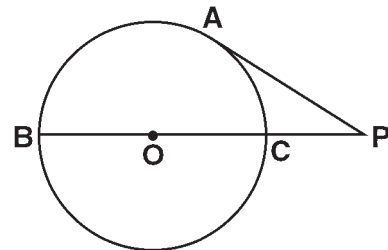
If $AB = 32$, $AE = 20$, and $EC = 24$, find BC .

- 7) In the diagram below, \overline{BA} is tangent to circle O at A and \overline{BD} is a secant.



If $AB = 12$ and $BC = 6$, find BD .

- 8) In the diagram below, diameter \overline{BC} is extended to point P and tangent \overline{PA} is drawn.



If $OC = 12$ and $CP = 3$, find AP .