Tangent/Secant Segments
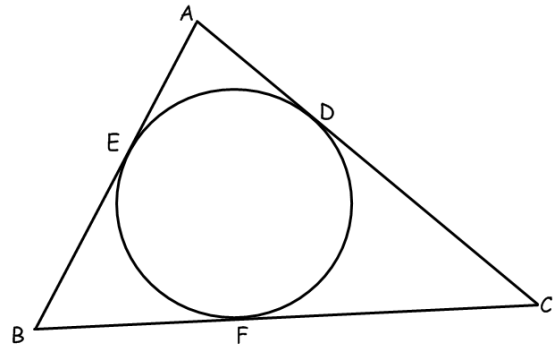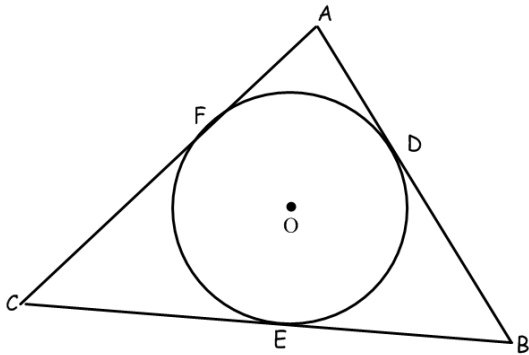
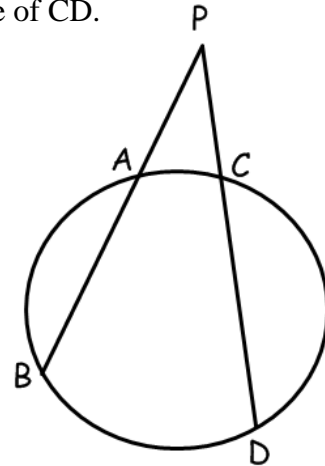1. $\overline{AB}$ and $\overline{BC}$ are tangents. Find the value of x.

3x+2

20
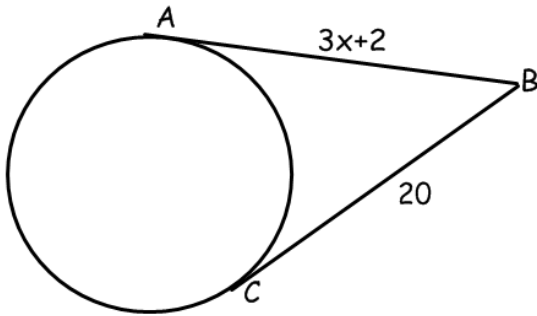
2. $\overline{AB}$, $\overline{BC}$, and $\overline{AC}$ are tangents. AB = 16, AC = 16, and AD = 6. Find $\overline{BC}$.
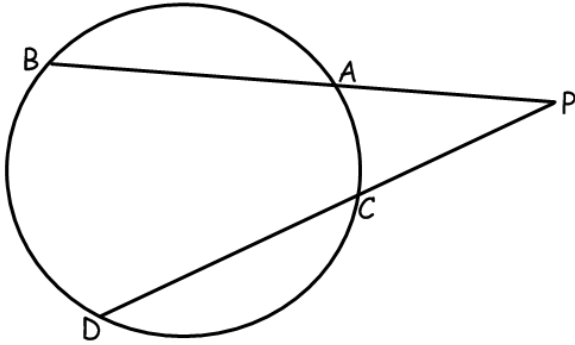

3. Given circle O, $\overline{AB}$, $\overline{BC}$, and $\overline{AC}$ are tangents. If BC=20, BD=8, find CD.
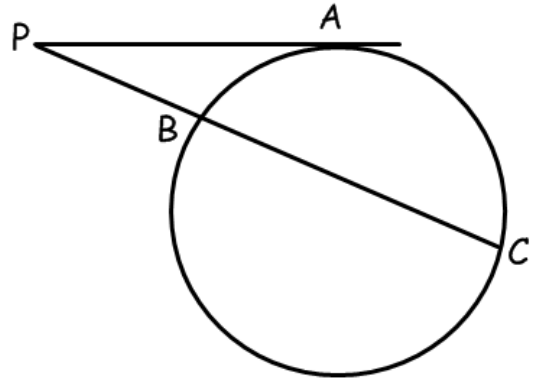

4. Secants $\overline{BP}$ and $\overline{DP}$ meet at point P. If PA=5, AB=15, and PD=25, find the measure of CD.

5. Secants $\overline{PB}$ and $\overline{PD}$ meet at P. If PA=5, PB=15, and PD=25, find the measure of CD.

6. $\overline{PA}$ is tangent. PB=4 and BC=5. What is the measure of PA?

7. $\overline{PA}$ is a tangent. PA = 8 and BC = 12/ What is the value of PC?