SELECTED PROPERTIES OF CIRCLES

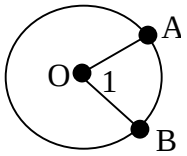
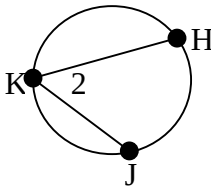
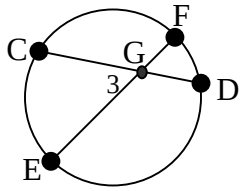
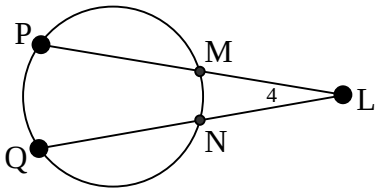
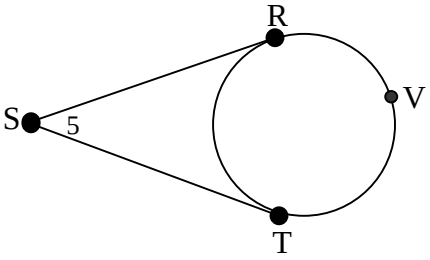
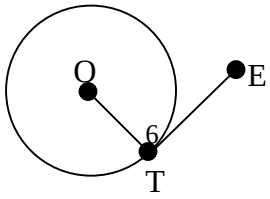
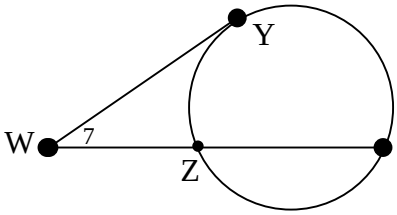
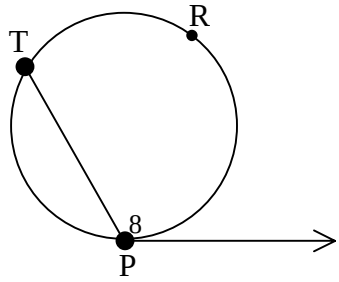
Figure	Angle Measure	Segment Relationships
Central Angle 	$m\angle 1 = m\overset{\frown}{AB}$	$OA = OB$
Inscribed Angle 	$m\angle 2 = \frac{1}{2} m\overset{\frown}{HJ}$	Generally, $HK \neq KJ$
Angle formed by intersecting chords 	$m\angle 3 = \frac{1}{2}\left(m\overset{\frown}{CE} + m\overset{\frown}{FD}\right)$	$CG \cdot GD = EG \cdot GF$
Angle formed by intersecting secants 	$m\angle 4 = \frac{1}{2}\left(m\overset{\frown}{PQ} - m\overset{\frown}{MN}\right)$	$PL \cdot LM = QL \cdot LN$

Figure	Angle Measure	Segment Relationships
Angle formed by intersecting tangents 	$m\angle 5 = \frac{1}{2}\left(m\overset{\frown}{RVT} - m\overset{\frown}{RT}\right)$	$SR = ST$
Angle formed by radius drawn to tangent 	$m\angle 6 = 90°$	$\overline{OT} \perp \overline{TE}$
Angle formed by intersecting tangent and secant 	$m\measuredangle 7 = \frac{1}{2}\left(m\overset{\frown}{YX} - m\overset{\frown}{YZ}\right)$	$WY^2 = WX \cdot WZ$
Angle formed by tangent and chord 	$m\measuredangle 8 = \frac{1}{2}m\overset{\frown}{PRT}$	None