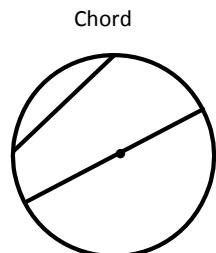
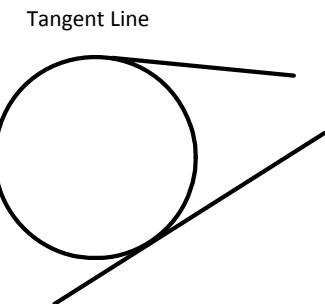
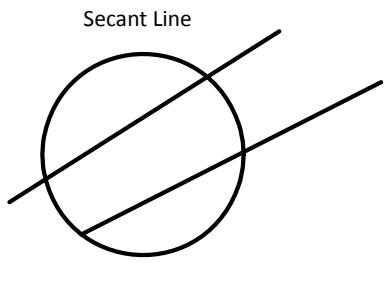
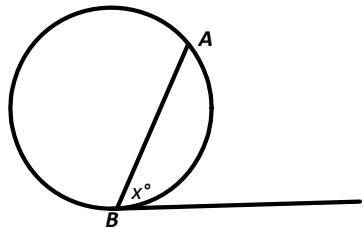


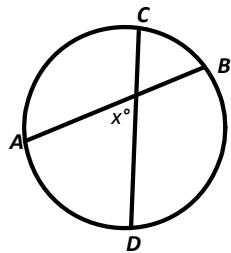
Secants, Tangents and Chords



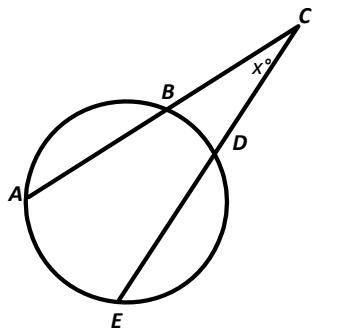
Angles formed by Secants, Tangents and Chords



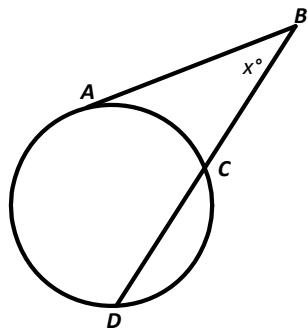
$$m\angle x^\circ = \frac{\widehat{AB}}{2}$$



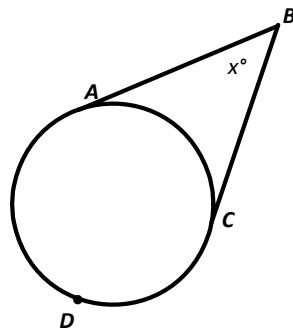
$$m\angle x^\circ = \frac{m\widehat{AD} + m\widehat{BC}}{2}$$



$$m\angle x^\circ = \frac{m\widehat{AE} - m\widehat{BD}}{2}$$



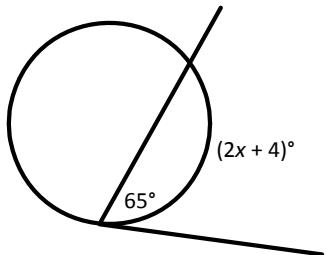
$$m\angle x^\circ = \frac{m\widehat{AD} - m\widehat{AC}}{2}$$



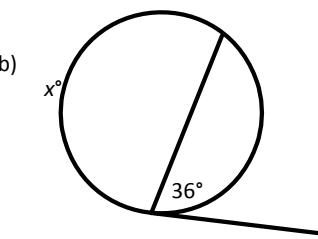
$$m\angle x^\circ = \frac{m\widehat{ADC} - m\widehat{AC}}{2}$$

1. Find the value of x .

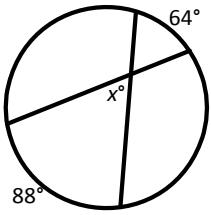
a)



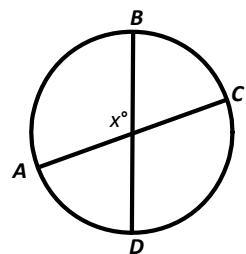
b)



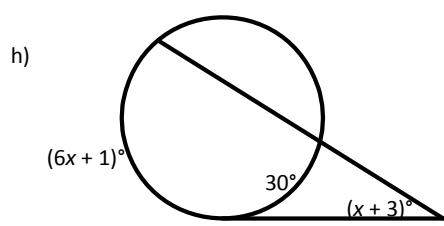
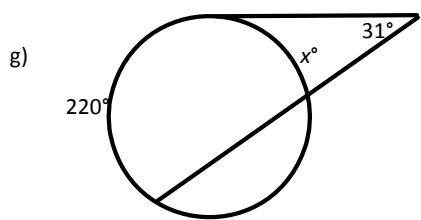
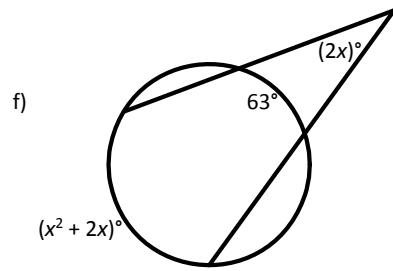
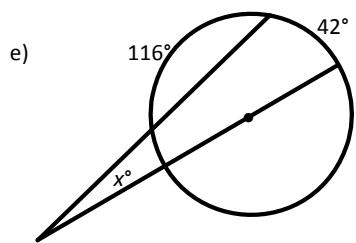
c)



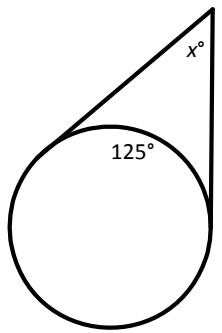
d)



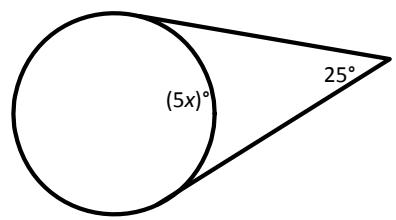
$$\widehat{AB} : \widehat{BC} : \widehat{CD} : \widehat{DA} = 4 : 2 : 5 : 7$$



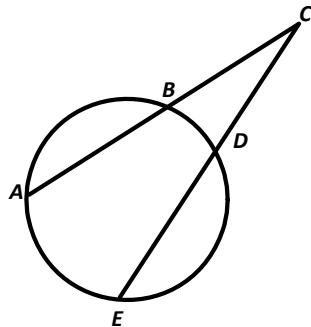
i)



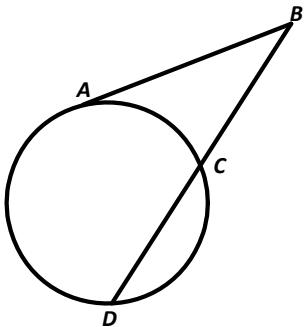
j)



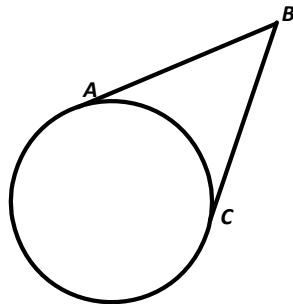
Segments formed by Secants, Tangents and Chords



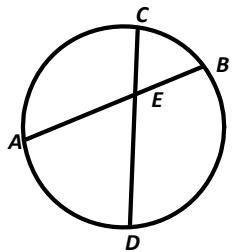
$$CB \cdot CA = CD \cdot CE$$



$$AB \cdot AB = BC \cdot BD$$

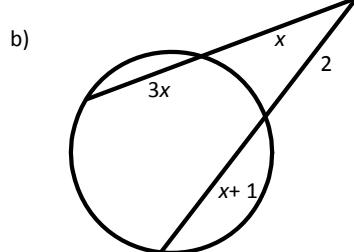
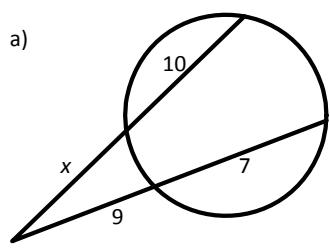


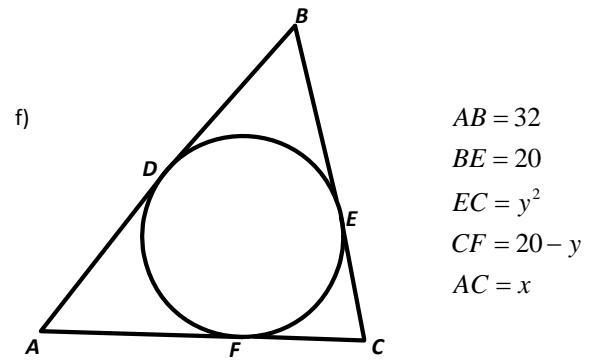
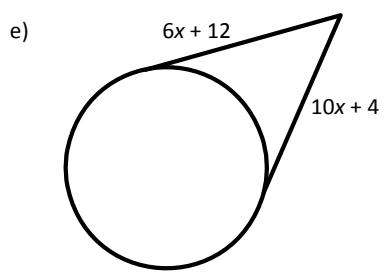
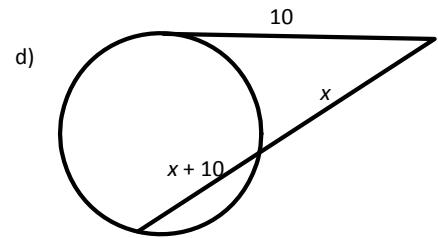
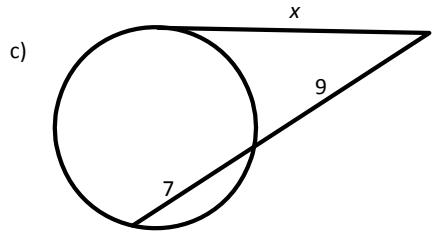
$$AB = CB$$



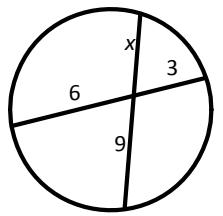
$$AE \cdot EB = CE \cdot ED$$

2. Find the value of x .





g)



h)

