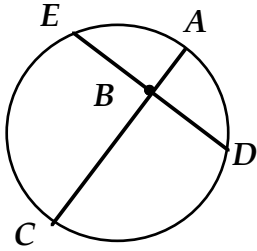
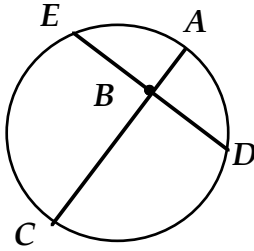


ANGLES

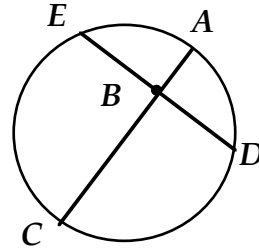
Off center intersecting chords (angles are half the sum):



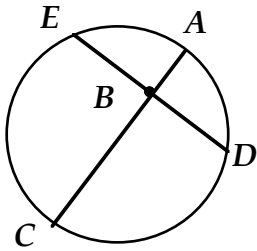
1. If arc EC=100°, arc AD=60°, $\angle ABD=$



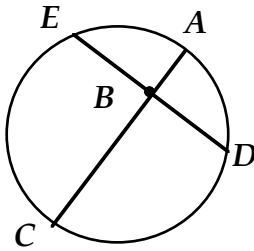
2. arc AD=80°, arc EC=200°, $\angle ABD=$



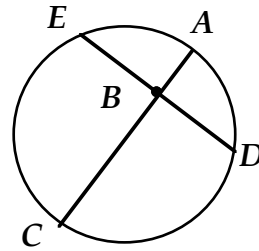
3. arc EC= 120°, arc AD=40°, $\angle ABD=$



4. If arc EC=95°, $\angle ABD=60^\circ$, arc AD=

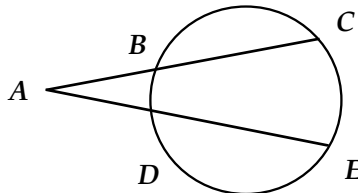


5. If arc AD=15°, $\angle EBA=145^\circ$, arc EC=

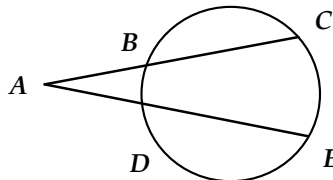


6. If arc EC=135°, $\angle EBC=95^\circ$, arc AD=

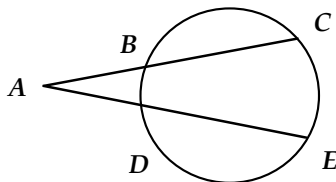
Intersecting secants (angles are half the difference)



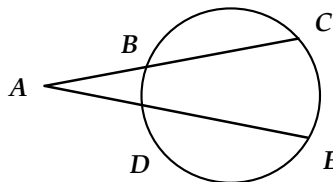
7. If arc BD=30°, arc CE=50°, then $\angle BAD=$



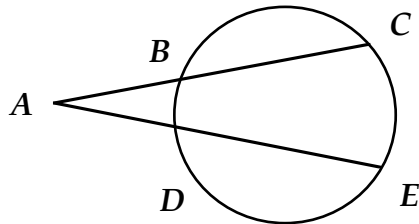
8. If arc BD=10, arc CE= 100° then $\angle BAD =$



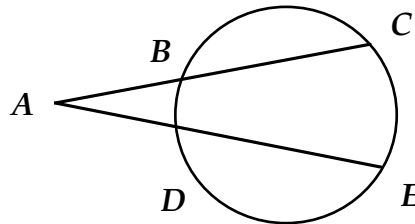
9. If arc BD=80°, arc CE=96° then $\angle BAD=$



10. If $\angle BAD=40^\circ$, arc CE=160° then arc BD=



11. If $\angle BAD=25^\circ$, arc BD=10° arc CE=

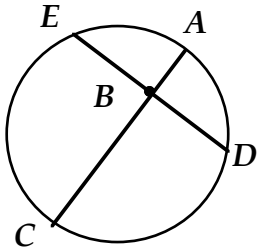


12. If $\angle BAD=30^\circ$, arc BC=100°, arc DE=120° arc BD= arc CE=

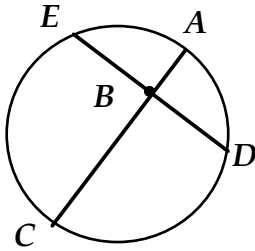
(Hint: find two equations and find a simultaneous solution)

LENGTHS

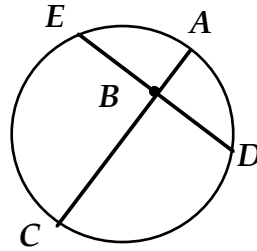
Off center intersecting chords ($\overline{EB} \cdot \overline{BD} = \overline{AB} \cdot \overline{BC}$)



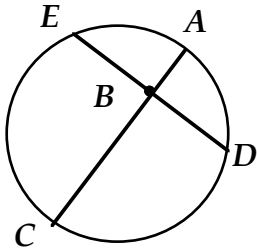
13. If $EB=3$, $BD=6$,
 $AB=2$, $BC=$



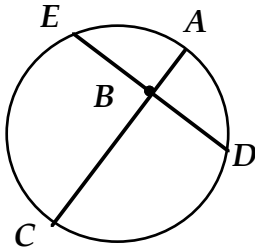
14. If $EB=4$, $BD=8$,
 $BC=16$, $AB=$



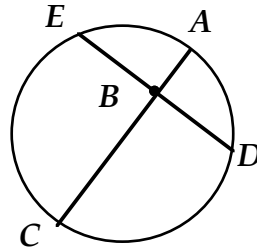
15. If $EB=5$, $BD=6$
 $AB=3$, $BC=$



16. If $ED=11$, $BD=4$,
 $AB=2$, $BC=$

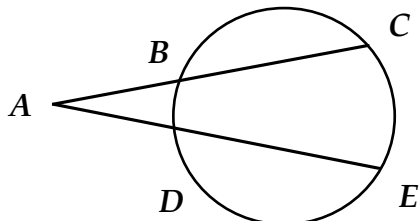


17. If $ED=12$, $BD=6$,
 $AC=13$, $AB=$

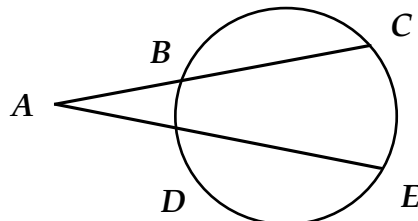


18. If $ED=5$, $BD=4$
 $AB=2$, $AC=$

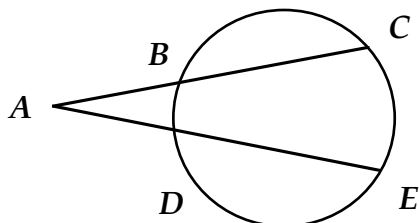
Intersecting secants ($\overline{AB} \cdot \overline{AC} = \overline{AD} \cdot \overline{AE}$)



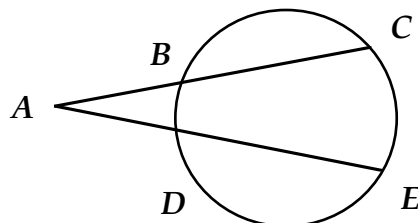
19. If $AD=3$, $AE=12$,
 $AB=4$, $AC=$



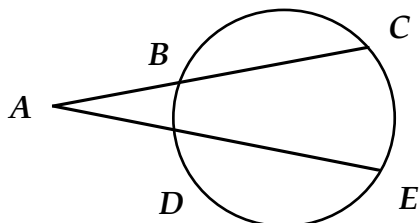
20. If $AD=5$, $AE=20$,
 $AB=4$, $AC=$



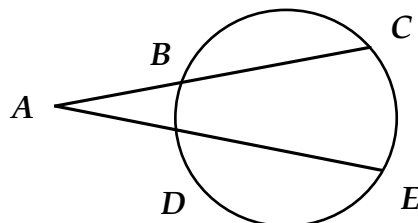
21. If $AB=8$, $AC=12$
 $AE=16$, $AD=$



22. $AB=4$, $BC=2$
 $AD=3$, $DE=$



23. If $AB=5$, $BC=3$
 $AE=20$, $AD=$



24. $AB=6$, $DE=11$
 $AD=3$, $BC=$