Chapter 8: Circles Lesson 8-6: Segment Formulas Classwork
 Name_____

 Date

 Period

Secants, chords and tangents are shown. For questions 1 - 6, refer to the figure below and find the indicated value.

- 1. If CE = 3, DE = 6, and AE = 2, find BE.
- 2. If AE = 3, BE = 5, and DE = 2, find CE.
- 3. If AE = 3, $BE = 6 \frac{1}{3}$, and CE = 4, find DE.
- 4. AE = 12, BE = 18, and DE = 9, find CE.
- 5. If AE = 3.4, BE = 5.2, and CE = 2, find DE.
- 6. If AE = 2x, BE = 4x, CE = 8, and DE = 16, find x.



For questions 7 - 11, refer to the figure below and find the indicated value. 7. If BC = 3 and BD = 12, find AB.

- 8. If AB = 6 and BD = 12, find BC.
- 9. If BC = 4 and CD = 12, find AB.
- 10. If AB = 6 and BD = 9, find BC.
- 11. If AB = 10 and BC = 5, find CD.



For questions 12 - 21, refer to the figure below and find the indicated value. 12. If AC = 12, BC = 4 and CE = 8, find CD.

- 13. If CE = 9, CD = 4, and BC = 3, find AB.
- 14. If DE = 3, DC = 9 and BC = 6, find AB.
- 15. If AB = 17, BC = 3, And CD = 6, find CE.
- 16. If DE = 8, CD =7, and AC = 21, find BC.
- 17. If CE =15, DE = 10, BC = 4, find AB.
- 18. If CD = 8, DE = 10, and AB = 10, find BC.
- 19. If BC = 5, AB=7, CD = *x* and DE = 5*x*, find *x*.
- 20. If BC = 12, AB = 13, CD = *x*, and DE = 2*x*, find *x*.

