Geometry
Chapter 1 Review For Exams

Main topics that you should understand.

- Segment Addition Postulate
- Angle Addition Postulate
- Segment Bisectors
- Angle Bisectors
- Linear Pairs
- Vertical Angles
- Complementary & Supplementary Angles
- Distance Formula
- Midpoint Formula

1. Given that A is between B and C, find AB if AC = 15 and BC = 22.5.

2. Given that C is between D and E, solve for x if CD = 2x + 3, DE = 39, and CE = x – 12.

3. Given that E is between A and B, find AB if AE = 2x + 6, EB = 14, and AB = x + 35.

4. Given that B is in the interior of ∠CAD, find m∠CAB if the m∠CAD = 48 and m∠BAD = 22.

5. Given that E is in the interior of ∠BAD, solve for x if the m∠BAE = 2x + 6, m∠EAD = 3x + 24, and m∠BAD = 95.

6. Given that F is in the interior of ∠CAB, find the m∠CAF if the m∠CAB = x + 42, m∠FAB = 12, and the m∠CAF = 2x – 6.

7. Given that $\overline{AB}$ bisects $\overline{CD}$ at E, find CE if AB = 12 and CD = 14.

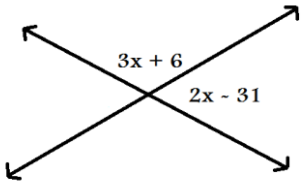
8. Given that $\overline{CD}$ bisects $\overline{AB}$ at F, solve for x if AB = 2x + 6 and AF = 12.

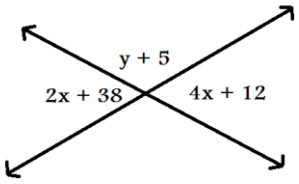
9. Given that $\overrightarrow{AB}$ bisects ∠CAD. Find the m∠CAB if the m∠CAD = 98.

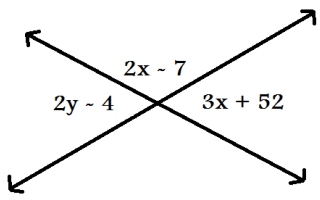
10. Given that $\overrightarrow{DE}$ bisects ∠ADC, solve for x given that m∠ADE = 2x + 15, and m∠EDC = 57.

11. Given that $\overrightarrow{CD}$ bisects ∠ACE, Find the m∠ACD if the m∠ACE = x + 48 and m∠ECD = x – 6.

Solve for x (ignore y).

12. 

13. 

14. 

Find the midpoint and distance of the given points.

15. A(3, -4) B(5, -6)

16. A(-4, 5, 8) B(6, -1, 2)