Geometry   Final Exam Review Answers

Chapter 1 and 2   1. $\overline{WC}$ 2. A 3. A 4. $WCRX$ 5. $\overline{WX}, \overline{EA}, \overline{GN}$

6. There are many answers, a few are given: $\overline{CR}, \overline{RX}, \overline{AN}, \overline{GN}$

7. $\overline{WC}$ & $\overline{CR}$ or $\overline{WC}$ & $\overline{CG}$ or $\overline{CG}$ & $\overline{CR}$ 8. Planes $GCRN$ & $GCWE$

9. Several answers are possible, a few are given: $\overrightarrow{HT}, \overleftrightarrow{WH}$, line m

10. A or W   11. C   12. $\overrightarrow{HC}$ or $\overrightarrow{HQ}$ 13. $\overline{CE}$ 14. $\overline{CR}$

14. $\overrightarrow{XC}$ or $\overrightarrow{XA}$ or $\overrightarrow{XN}$ 15. $\overline{NC}$ or $\overline{CN}$

16. There is more than one answer, an example is given: $\angle 2$ & $\angle GAW$

17. $\angle RAG$ or $\angle KAW$ 18. $\angle MAG$ or $\angle GAM$ 19. $\angle GAW$

20. There is more than one answer, an example is given: $\angle KAR$ 21. $\angle MAR$ 22. $\angle CAM$

23. a) Yes b) If a figure has four right angles, then it is a square
   c) No, the figure could be just a rectangle

24. If it's a plane, then it has wings.

25. a) If an angle has a measure of 90°, then it is a right angle.
   b) An angle is a right angle if and only if it's measure is 90°

26. a) • If the polygon is a hexagon, then it has six sides
   • If the polygon has six sides, then it's a hexagon
   b) Yes, because both conditionals are true.

27. 2. Segment Addition Postulate
   3. Substitution
   4. Combine Like Terms (Simplify)
   5. Subtraction Property of Equality
   6. Simplify
   7. Division Property of Equality
   8. Simplify

1. a) Vertical Angles, ≅   b) SSE, suppl   c) No Name, ≅   d) Corresp, ≅
e) Alt Int, ≅   f) No Name, suppl   g) SSI, suppl   h) Alt Ext, ≅
2. a) $a\|b$ b) $g\|h$ c) Not enough information
3. Possible Proof is given

Statement	Reason
1. $a\|b$ and $g\|h$	1. Given
2. ∠5 & ∠15 are suppl	2. SSI
3. ∠15 ≅ ∠12	3. Alt Ext
4. ∠2 & ∠12 are suppl	4. Substitution

4. Possible Proof is given

Statement	Reason
1. $a\|b$ and $g\|h$	1. Given
2. ∠6 ≅ ∠9	2. Alt Int
3. ∠9 ≅ ∠11	3. Corresp
4. ∠6 ≅ ∠11	4. Substitution

5. a) No (SSI angles aren't suppl)   b) Yes, if you use vertical angles you'll find that SSI angles are supplementary
c) Yes, Alt Ext angles are congruent.
6. $x = 65$ 7. $x = 115$ 8. $x = 39$
9. 19 sides   10. 1 exterior angle = 36° 1 interior angle = 144°
11. 12 sides   12. a) Acute Isosceles   b) Obtuse Scalene   c) Equiangular Equilateral.