

How do I study?

- Look over all class notes
- Pay attention to definitions
- Review each section in Chapter 1 (§1.1–§1.8) from the book
- Look over homework assignments and rework the ones you may have missed

Possible Test Questions

§ 1.1: Know how to properly name segments, lines, rays and angles
p. 7-8: #5, 11

§ 1.2: pp. 15-17: # 8, 13, 14, 16, 17, 19, 21

§ 1.3: Know what is meant by “between”
Know what can and cannot be assumed from a diagram
Know the Triangle Inequality
Look over WS 12 Addition Postulates
p. 20-22 # 1, 6, 9, 13, 15

§ 1.4: p. 27: # 14, 15

§ 1.5: pp. 32-35: #6, 7, 9, 18, 19, 21, 22, 23

§ 1.7 and 1.8: Know the difference between inductive and deductive
Know the 4 elements of deductive structure (p. 39)
Know the 3 undefined terms of geometry
Know how to write the various logic statements (conditional, inverse, converse, contrapositive)
Know how to use the symbols for logic statements (p , q , $\sim p$, $p \rightarrow q$, $\sim q \rightarrow \sim p$, etc.)
Know how to write a conclusion for a chain of reasoning

Look over all review problems on pp. 54-59

Know how to factor and how to solve systems of equations

Do Ch. 1 Review Problems (pp. 54–59 #1, 2, 5–9, 17, 22–26, 33–37)

Also look carefully at problems on
pp. 20-22 #13, 15
p. 27 #14, 15
pp. 32–35 #19, 21, 22



ANSWERS to Chapter 1 Review Problems (pp. 54–59 #1, 2, 5–9, 17, 22–26, 33–37)

- 1 a) \overrightarrow{AR} \overrightarrow{AD} \overrightarrow{RA} \overrightarrow{RD} \overrightarrow{DA} \overrightarrow{DR} h) \overrightarrow{AC}
 b) \overrightarrow{BA} \overrightarrow{BC} i) \overrightarrow{EF}
 c) \overrightarrow{DF} j) $\angle 1$
 d) \overrightarrow{CB} k) A
 e) $60^\circ, 52^\circ, 120^\circ$ l) \overrightarrow{FE}
 f) No g) No angle can be called $\angle B$ since 3 angles have B as a vertex
2. $\angle DEF$ is straight
 a) Right b) Obtuse c) Acute d) Straight e) Right
5. a) $\overline{BC} \cong \overline{RT}$ b) $\angle A \cong \angle S$
6. a) no b) yes
7. 20
8. 30, 90, 60
9. No
17. a) -3 b) -13
19. a) $\frac{2}{5}$ b) $\frac{1}{10}$
22. Converse: If the angle formed by the hands of a clock is acute, then the time is 2:00. False
 Inverse: If the time is not 2:00, then the angle formed by the hands is not acute. False
 Contrapositive: If the angle formed by the hands of a clock is not acute, then the time is not 2:00. True
23. 14
24. a) $y = -\frac{3}{4}x + 22\frac{1}{2}$ b) $x = 18$ $y = 9$
25. 15
26. 30
33. $7 < PR < 31$
34. $x = 10$ $y = 7.5$
35. a) $90 < m\angle Q < 180$ b) $59 < x < 104$
36. $x = 30$ or $x = -3$
37. $6 < w < 10$

pp. 27 #14 $9 < y < 27$

pp. 32–35 #22 $m\angle ROS = 10^\circ$

