

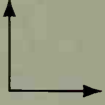

Algebra Review, Page 10

1. $c = 7$ 3. $c = 17$ 5. $z = 15$ 7. $x = 5$ 9. $x = 1$ 11. $a = 12$ 13. $b = -3$
 15. $b = -\frac{2}{9}$ 17. $k = \frac{1}{2}$ 19. $e = 24$ 21. $e = -15$ 23. $p = 6$ 25. $t = 8$ 27. $s = 9$
 29. $x = 15$ 31. $g = 8$ 33. $w = 8$ 35. $y = 13$ 37. $b = 5$ 39. $h = 20$ 41. $f = 15$
 43. $d = -1$ 45. $x = 45$

Written Exercises, Pages 15-16

1. 15 3. 4.5 5. True 7. True 9. False 11. False 13. True 15. True 17. False
 19. B 21. C, G 23. D 25. -1 31. a. 5 b. 10 c. 10 d. 6 33. $x = 6$ 35. $x = 3$
 37. $y = 6$ 39. $z = 8$; $GE = 10$; $EH = 10$; yes 41. \overline{HN} 43. \overline{GT} 45. M 47. 2 if $AB \geq 3$ cm, 1 if $AB < 3$ cm

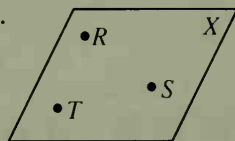
Written Exercises, Pages 21-22

1. E ; \overrightarrow{EL} , \overrightarrow{EA} Answers may vary in Exs. 3-7. 3. $\angle DLT$ 5. $\angle AEL$ 7. $\angle 7$ 9. acute 11. right
 13. straight 15. LAS 17. \overrightarrow{LE} , $\angle ALS$ 19.  21.  23. 2

25. Yes; the sum of the measures of the angles is 180. 27. $180 - t$, t , $180 - t$ 29. $x = 18$
 31. $x = 9$ 33. $x = 20$ 35. a. 6; 10 b. 15 c. $\frac{n(n-1)}{2}$

Written Exercises, Pages 25-26

1. If there is a line and a pt. not on the line, then one and only one plane contains them. 3. a. a line b. If two planes intersect, then their intersection is a line. 5. Through any 2 pts. there is exactly one line.
 7. ACGE 9. \overrightarrow{AB} , \overrightarrow{CD} , \overrightarrow{AD} , \overrightarrow{BC} 11. ABCD, DCGH, ABGH 13. No 15. No 17. a. Through any 3 pts. there is at least one plane. b.



- c. Yes; if 2 pts. are in a plane, then the line that contains the pts. is in that plane.

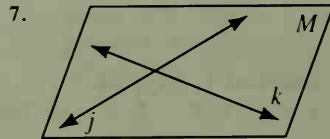
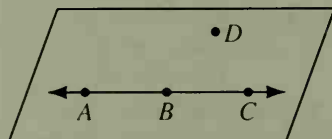
- d. Through any 2 pts. there is exactly one line. e. If 2 pts. are in a plane, then the line that contains the pts. is in that plane. 19. a. 3 b. 6 c. 10 d. 15 e. 21 f. $\frac{n(n-1)}{2}$

Self-Test 2, Page 29

1. \overrightarrow{RN} , \overrightarrow{RC} , \overrightarrow{NC} 2. \overrightarrow{NR} 3. No 4. $x = 2$ 5. JOT 6. \overrightarrow{OK} , JOT 7. 180, straight 8. c
 9. there is exactly one line 10. then \overrightarrow{AB} is in Z 11. their intersection is a line 12. there is exactly one plane that contains j and P

Chapter Review, Page 30

1. infinitely many 3. 2 5.



9. U or V 11. congruent 13. $\angle 1$, $\angle 2$, $\angle ADC$; $\angle 1$, $\angle 2$ 15. obtuse 17. True 19. False