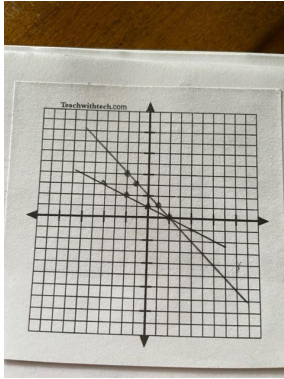


Geometry Summer Packet Key

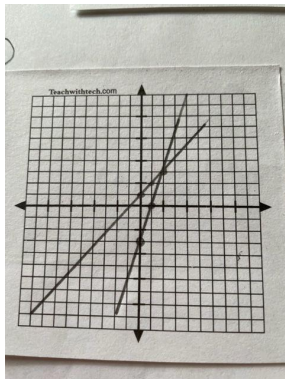
p. 743

1.



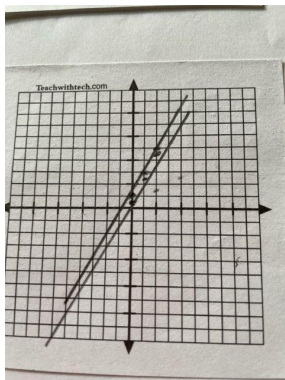
(2,0)

2.



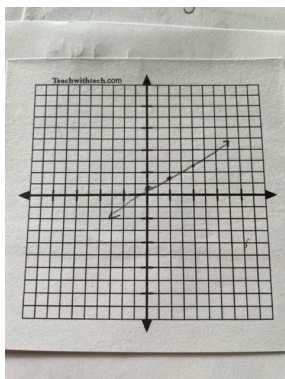
(2,3)

3.



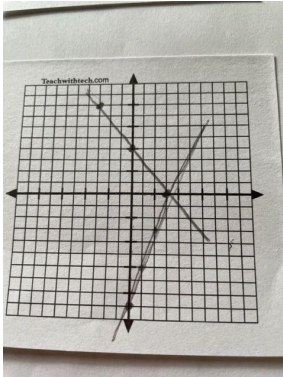
no solution

4.

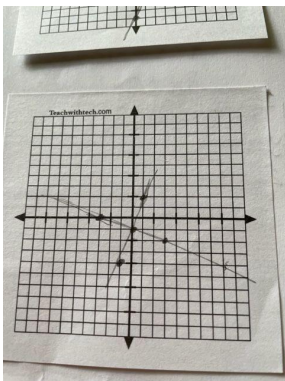


all real numbers

5. (3,0)



6. (0,-1)



7. (0,4)
8. (2,-5)
9. (-1,2)
10. $(\frac{1}{2}, 3)$
11. (-1,2)
12. $(\frac{5}{2}, -\frac{5}{2})$
13. $(-\frac{4}{3}, 3)$
14. $(-2, \frac{5}{4})$
15. (4,1)
16. (1,1)
17. (8,8)
18. (1,-3)
19. elimination, (3,1)
20. elimination, no solution
21. substitution, (4,3)
22. substitution, (3,0)
23. elimination, $(-\frac{11}{2}, 2)$
24. substitution, (-6,4)

p. 745

1. $4\sqrt{2}$

2. $5\sqrt{3}$

3. $10\sqrt{5}$

4. $4\sqrt{15}$

5. 6

6. 20

7. $7x|y^3|\sqrt{2x}$

8. $2ab^2c^2\sqrt{14c}$

9. $\frac{9}{7}$

10. $\frac{11}{4}$

11. $\frac{3\sqrt{14}}{4}$

12. $\frac{4\sqrt{6}}{7}$

13. $\frac{p\sqrt{30p}}{q}$

14. $\frac{3\sqrt{6}}{q^3}$

15. $\frac{20+8\sqrt{3}}{13}$

16. $35\sqrt{3} + 42\sqrt{2}$

17. $\frac{\sqrt{3}}{4}$

18. $\frac{2\sqrt{30}}{25}$

19. $\frac{6\sqrt{5+3\sqrt{10}}}{2}$

20. $\frac{2+\sqrt{13}}{3}$

p. 747

1. $3q^7$

2. $20m^4$

3. $36c^6$

4. $10n^8$

5. $15f^3g^9$

6. $6j^6k^5$

7. $8a^3b^5$

8. $\frac{32}{5}x^6y^3$

9. $-2q^4 - 6q^2$

10. $5p^2 - 90p$

11. $-45c^3 + 30c^2 + 75c$

12. $-32x^3 - 8x^2 + 88x$

13. $-8m^4 + 28m^3 - 20m^2$

14. $40y^5 - 16y^3 + 8y^2$

15. $\frac{9}{4}m^6n^4$

16. $4c^6d^4$

17. $-125w^3x^{15}$

18. $216a^{15}b^3$

19. $169k^{10}l^3$

20. $100w^{16}x^4$

21. $-1792y^{11}z^2$

22. $16p^7q^{13}$

23. $m^2 - 5m + 4$

24. $s^2 - 9s + 14$

25. $x^2 + x - 12$

26. $a^2 - 3a - 18$

27. $5d^2 - 17d - 12$

28. $3q^2 + 11q + 10$

29. $10q^2 + 19q + 6$

30. $4a^2 - 16a + 15$

31. $d^2 - 1$

32. $16a^2 - 9$

33. $s^2 - 10s + 25$

34. $9f^2 - 6fg + g^2$

35. $4r^2 - 20r + 25$

$$36. t^2 + \frac{16}{3}t + \frac{64}{9}$$

$$37. x^3 - x^2 - 22x - 8$$

$$38. x^3 + x^2 - 13x + 14$$

$$39. 9b^3 - 3b^2 + b - 2$$

$$40. 2j^3 + 3j^2 - 6j + 28$$

p. 479

$$1. \frac{ac^2}{2}$$

$$2. 5q^3r$$

$$3. \frac{b^4d^2}{8}$$

$$4. \frac{5p^4x}{2}$$

$$5. \frac{3st^7}{2r^5}$$

$$6. \frac{3x^2z^3}{y^2}$$

$$7. \frac{w^{12}}{216}$$

$$8. \frac{-27q^6}{125}$$

$$9. \frac{4y^4}{49}$$

$$10. \frac{625m^8}{81}$$

$$11. \frac{z^2-4z-9}{z}$$

$$12. \frac{1}{2}d + \frac{4}{5} - \frac{2}{d}$$

$$13. \frac{1}{4}p^2 - 3p + \frac{3}{4} + \frac{2}{p}$$

$$14. \frac{1}{2}b^2 + 2b + \frac{5}{b}$$

$$15. a - 6 + \frac{4}{a} - \frac{3}{a^2}$$

$$16. 4y - \frac{5y^2}{x} + 3x$$

$$17. s+2$$

$$18. r+4$$

$$19. t-4$$

$$20. c-6$$

$$21. 2q+1$$

$$22. 3z-5$$

$$23. m^2 + 4m + 1 + \frac{2}{m-1}$$

$$24. d^2 - 4d + 8 + \frac{8}{d+2}$$

$$25. 2j^2 - 4j + 13$$

$$26. 2x^2 + 11x + 44$$

$$27. x + 2 - \frac{11}{x+4}$$

$$28. h^2 + 4h + 2 + \frac{5}{h-2}$$

p. 751

$$1. u(u-12)$$

$$2. w(w+4)$$

$$3. 7j(j-4)$$

$$4. 2g(g-12)$$

$$5. 2x(3x+1)$$

$$6. 5t(t-6)$$

$$7. (z+7)(z+3)$$

$$8. (n+3)(n+5)$$

$$9. (n+6)(n+2)$$

$$10. (x+6)(x+8)$$

$$11. (m+7)(m-1)$$

$$12. (m+6)(m-4)$$

$$13. (q-3)(q-6)$$

$$14. (p-3)(p-2)$$

$$15. (a-4)(a+1)$$

$$16. (k-8)(k+4)$$

$$17. (n-11)(n+4)$$

$$18. (y-11)(y+8)$$

$$19. (3z-2)(z+2)$$

$$20. (2y-1)(y+5)$$

$$21. (5x+2)(x+1)$$

$$22. (3s-1)(s+4)$$

$$23. (3r-1)(2r-1)$$

$$24. (8a-1)(a+2)$$

$$25. (w-\frac{3}{4})(w+\frac{3}{4})$$

$$26. (c-8)(c+8)$$

$$27. (r+7)^2$$

- 28. $(b+9)^2$
- 29. $(j-6)^2$
- 30. $(2t-5)(2t+5)$
- 31. $r = 0, 7/2$
- 32. $x = -5, 0$
- 33. $k = -9, -4$
- 34. $w = 2, 6$
- 35. $c = -2, 7$
- 36. $z = -6, 7$
- 37. $y = -3/2, 4$
- 38. $b = -5/3, 3$
- 39. $t = -6$
- 40. $u = -5/2$
- 41. $q = 4$
- 42. $a = 3$