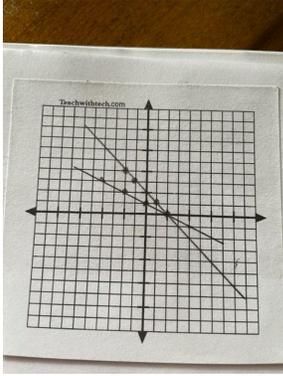


Geometry Summer Packet Key

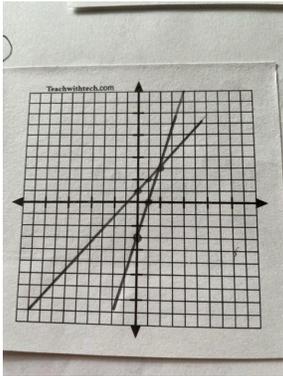
p. 743

1.



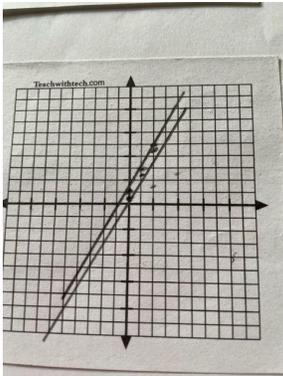
(2,0)

2.



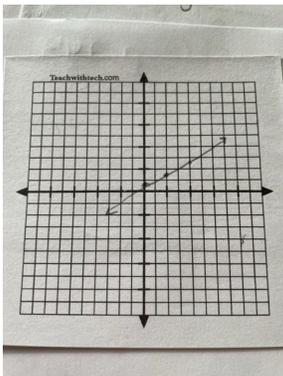
(2,3)

3.



no solution

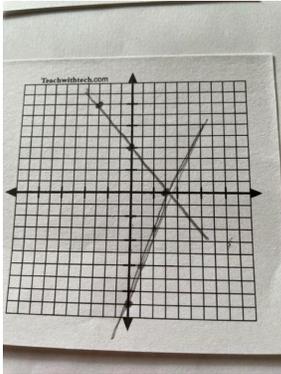
4.



all real numbers

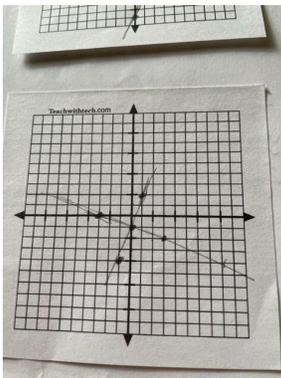
5.

(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. $a = 3$