

1. Solve by taking square roots:

$$s^2 = 9$$

2. Solve by taking square roots:

$$q^2 = 100$$

3. Solve by taking square roots:

$$z^2 = 4$$

4. Solve by taking square roots:

$$q^2 = 36$$

5. Solve by taking square roots:

$$m^2 - 16 = 0$$

6. Solve by taking square roots:

$$p^2 - 36 = 0$$

7. Solve by taking square roots:

$$x^2 - 9 = 0$$

8. Solve by taking square roots:

$$z^2 - 1 = 0$$

9. Solve by taking square roots:

$$64z^2 - 49 = 0$$

10. Solve by taking square roots:

$$121x^2 - 36 = 0$$

11. Solve by taking square roots:

$$64v^2 - 25 = 0$$

12. Solve by taking square roots:

$$81v^2 - 64 = 0$$

13. Solve by taking square roots:

$$64v^2 = 25$$

14. Solve by taking square roots:

$$81y^2 = 64$$

15. Solve by taking square roots:

$$9x^2 = 4$$

16. Solve by taking square roots:

$$49v^2 = 16$$

17. Solve by taking square roots:

$$w^2 - 117 = 0$$

18. Solve by taking square roots:

$$p^2 - 112 = 0$$

19. Solve by taking square roots:

$$p^2 - 20 = 0$$

20. Solve by taking square roots:

$$v^2 - 50 = 0$$

21. Solve by taking square roots:

$$(x - 8)^2 = 81$$

22. Solve by taking square roots:

$$(x - 9)^2 = 49$$

23. Solve by taking square roots:

$$(x - 1)^2 = 64$$

24. Solve by taking square roots:

$$(x - 4)^2 = 64$$

25. Solve by taking square roots:

$$7(x + 9)^2 = 112$$

26. Solve by taking square roots:

$$4(x + 9)^2 = 100$$

27. Solve by taking square roots:

$$2(x + 4)^2 = 50$$

28. Solve by taking square roots:

$$4(x - 9)^2 = 16$$

29. Solve by taking square roots:

$$9(x - 7)^2 - 36 = 0$$

30. Solve by taking square roots:

$$6(x - 3)^2 - 24 = 0$$

31. Solve by taking square roots:

$$7(x - 7)^2 - 112 = 0$$

32. Solve by taking square roots:

$$5(x - 6)^2 - 20 = 0$$

33. Solve by taking square roots:

$$(y - 2)^2 - 45 = 0$$

34. Solve by taking square roots:

$$(x - 1)^2 - 12 = 0$$

35. Solve by taking square roots:

$$(x-3)^2 - 44 = 0$$

36. Solve by taking square roots:

$$(y-4)^2 - 125 = 0$$

37. Solve by taking square roots:

$$5\left(y - \frac{1}{10}\right)^2 = 35$$

38. Solve by taking square roots:

$$4\left(z - \frac{1}{10}\right)^2 = 44$$

39. Solve by taking square roots:

$$5\left(w - \frac{1}{7}\right)^2 = 15$$

40. Solve by taking square roots:

$$3\left(x - \frac{1}{7}\right)^2 = 33$$

41. Solve by taking square roots:

$$z^2 = -4$$

42. Solve by taking square roots:

$$z^2 = -36$$

43. Solve by taking square roots:
 $z^2 = -100$

44. Solve by taking square roots:
 $z^2 = -49$

45. Solve by taking square roots:
 $y^2 + 4 = 0$

46. Solve by taking square roots:
 $y^2 + 100 = 0$

47. Solve by taking square roots:
 $y^2 + 36 = 0$

48. Solve by taking square roots:
 $y^2 + 25 = 0$

49. Solve by taking square roots:
 $y^2 + 162 = 0$

50. Solve by taking square roots:
 $y^2 + 50 = 0$

51. Solve by taking square roots:
 $y^2 + 32 = 0$

52. Solve by taking square roots:
 $z^2 = -16$

53. Solve by taking square roots:
 $z^2 = -4$

54. Solve by taking square roots:

$$z^2 = -81$$

55. Solve by taking square roots:

$$z^2 = -81$$

56. Solve by taking square roots:

$$y^2 + 64 = 0$$

57. Solve by taking square roots:

$$y^2 + 49 = 0$$

58. Solve by taking square roots:

$$y^2 + 9 = 0$$

59. Solve by taking square roots:

$$y^2 + 4 = 0$$

60. Solve by taking square roots:

$$y^2 + 200 = 0$$

61. Solve by taking square roots:

$$y^2 + 162 = 0$$

62. Solve by taking square roots:

$$y^2 + 98 = 0$$

63. Solve by taking square roots:

$$y^2 + 72 = 0$$

64. Solve by taking square roots:

$$y^2 + 18 = 0$$

Answer Key

1. $-3, 3$
2. $-10, 10$
3. $-2, 2$
4. $-6, 6$
5. $-4, 4$
6. $-6, 6$
7. $-3, 3$
8. $-1, 1$
9. $-\frac{7}{8}, \frac{7}{8}$
10. $-\frac{6}{11}, \frac{6}{11}$
11. $-\frac{5}{8}, \frac{5}{8}$
12. $-\frac{8}{9}, \frac{8}{9}$
13. $-\frac{5}{8}, \frac{5}{8}$
14. $-\frac{8}{9}, \frac{8}{9}$
15. $-\frac{2}{3}, \frac{2}{3}$
16. $-\frac{4}{7}, \frac{4}{7}$
17. $-3\sqrt{13}, 3\sqrt{13}$
18. $-4\sqrt{7}, 4\sqrt{7}$
19. $-2\sqrt{5}, 2\sqrt{5}$
20. $-5\sqrt{2}, 5\sqrt{2}$
21. $-1, 17$
22. $2, 16$
23. $-7, 9$
24. $-4, 12$
25. $-13, -5$
26. $-14, -4$
27. $-9, 1$
28. $7, 11$
29. $5, 9$
30. $1, 5$
31. $3, 11$
32. $4, 8$

33. $2-3\sqrt{5}, 2+3\sqrt{5}$
34. $1-2\sqrt{3}, 1+2\sqrt{3}$
35. $3-2\sqrt{11}, 3+2\sqrt{11}$
36. $4-5\sqrt{5}, 4+5\sqrt{5}$
37. $\frac{1}{10}-\sqrt{7}, \frac{1}{10}+\sqrt{7}$
38. $\frac{1}{10}-\sqrt{11}, \frac{1}{10}+\sqrt{11}$
39. $\frac{1}{7}-\sqrt{3}, \frac{1}{7}+\sqrt{3}$
40. $\frac{1}{7}-\sqrt{11}, \frac{1}{7}+\sqrt{11}$
41. $2i$ and $-2i$
42. $6i$ and $-6i$
43. $10i$ and $-10i$
44. $7i$ and $-7i$
45. $2i$ and $-2i$
46. $10i$ and $-10i$
47. $6i$ and $-6i$
48. $5i$ and $-5i$
49. $9i\sqrt{2}$ and $-9i\sqrt{2}$
50. $5i\sqrt{2}$ and $-5i\sqrt{2}$
51. $4i\sqrt{2}$ and $-4i\sqrt{2}$
52. $4i$ and $-4i$
53. $2i$ and $-2i$
54. $9i$ and $-9i$
55. $9i$ and $-9i$
56. $8i$ and $-8i$
57. $7i$ and $-7i$
58. $3i$ and $-3i$
59. $2i$ and $-2i$
60. $10i\sqrt{2}$ and $-10i\sqrt{2}$
61. $9i\sqrt{2}$ and $-9i\sqrt{2}$
62. $7i\sqrt{2}$ and $-7i\sqrt{2}$
63. $6i\sqrt{2}$ and $-6i\sqrt{2}$
64. $3i\sqrt{2}$ and $-3i\sqrt{2}$