

Practice 5-5**Quadratic Equations**

Solve each equation by factoring, by taking square roots, or by graphing.
When necessary, round your answer to the nearest hundredth.

1. $x^2 - 18x - 40 = 0$

2. $16x^2 = 56x$

3. $5x^2 = 15x$

4. $x^2 - 6x - 7 = 0$

5. $x^2 - 49 = 0$

6. $x^2 + 2x + 1 = 0$

7. $x^2 - 1 = 0$

8. $x^2 - 3x - 4 = 0$

9. $x^2 + 9x^2 + 20 = 0$

10. $6x^2 + 9 = -55x$

11. $(x + 5)^2 = 36$

12. $2x^2 - 3x = 0$

13. $2x^2 + x - 10 = 0$

14. $-4x^2 + 3x = -1$

15. $5x^2 - 6x + 1 = 0$

16. $3x^2 + 1 = -4x$

17. $-2x^2 + 2 = -3x$

18. $6x^2 + 1 = 5x$

19. $-2x^2 - x + 1 = 0$

20. $3x^2 + 5x = 2$

21. $x^2 - 6x = -8$

22. $x^2 + 6 = -7x$

23. $6x^2 + 18x = 0$

24. $2x^2 + 5 = 11x$

25. $3x^2 - 7x + 2 = 0$

26. $2x^2 - 3x = -1$

27. $2x^2 - x = 6$

28. $x^2 - 144 = 0$

29. $4x^2 + 2 = 6x$

30. $5x^2 + 2 = -7x$

31. $7x^2 + 6x - 1 = 0$

32. $2x^2 - 6x = -4$

33. $11x^2 - 12x + 1 = 0$

34. $7x^2 + 1 = -8x$

35. $x^2 + 9 = -10x$

36. $(x - 2)^2 = 18$

37. $x^2 - 8x + 7 = 0$

38. $x^2 - 16 = 0$

39. $x^2 + 6x = -8$

40. $x^2 + 3 = 4x$

41. $2x^2 + 6 = -7x$

42. $6x^2 + 2 = 7x$

43. $(x + 7)^2 = \frac{49}{16}$

44. $9x^2 - 8x = 1$

45. $10x^2 + 7x + 1 = 0$

46. $4x^2 + 2 = -9x$

47. $3x^2 + 4 = 8x$

48. $4x^2 + 5 + 9x = 0$

49. $9x^2 + 10x = -1$

50. $2x^2 + 9x + 4 = 0$

51. $2x^2 + 6x = -4$

52. $11x^2 - 1 = -10x$

53. $4x^2 = 1$

54. $6x^2 = 12x$

55. $25x^2 - 9 = 0$

56. $2x^2 + 11x = 6$

57. $8x^2 - 6x + 1 = 0$

58. $x^2 + 11 = -12x$

59. $6x^2 + 2 = 13x$

60. $x^2 = 121$

61. $4x^2 - 11x = 3$

62. $8x^2 + 6x + 1 = 0$

63. $x^2 + 9x + 8 = 0$

64. $x^2 + 8x = -12$

65. $x^2 + 6x = 40$

66. $2x^2 = 8$

67. $x^2 = x + 6$

68. $x^2 + 2x - 6 = 0$

69. $x^2 - 12 = 0$

70. $3x^2 + 4x = 6$

71. $7x^2 - 105 = 0$

72. $16x^2 = 81$

73. $x^2 + 5x + 4 = 0$

74. $x^2 + 36 = -13x$

75. $x^2 + 6 = 5x$