

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