

Exer. 39-46: Solve the equation using any method. Explain your reasoning.

39. $u^2 = -9u$

40. $\frac{t^2}{20} + 8 = 15$

41. $-(x+9)^2 = 64$

42. $-2(x+2)^2 = 5$

43. $7(x-4)^2 - 18 = 10$

44. $t^2 + 8t + 16 = 0$

45. $x^2 + 3x + \frac{5}{4} = 0$

46. $x^2 - 1.75 = 0.5$

Exer. 47-54: Find the zero(s) of the function.

47. $g(x) = x^2 + 6x + 8$

48. $f(x) = x^2 - 8x + 16$

49. $h(x) = x^2 + 7x - 30$

50. $g(x) = x^2 + 11x$

51. $f(x) = 2x^2 - 2x - 12$

52. $f(x) = 4x^2 - 12x + 9$

53. $g(x) = x^2 + 22x + 121$

54. $h(x) = x^2 + 19x + 84$