Larson 7.0 Section 2.1 #61-69 odds

In Exercises 61–70, use the alternative form of the derivative to find the derivative at $x = c$ (if it exists).

61. $f(x) = x^2 - 1, \quad c = 2$

62. $g(x) = x(x - 1), \quad c = 1$

63. $f(x) = x^3 + 2x^2 + 1, \quad c = -2$

64. $f(x) = x^3 + 2x, \quad c = 1$

65. $g(x) = \sqrt{|x|}, \quad c = 0$

66. $f(x) = 1/x, \quad c = 3$

67. $f(x) = (x - 6)^{2/3}, \quad c = 6$

68. $g(x) = (x + 3)^{1/3}, \quad c = -3$

69. $h(x) = |x + 5|, \quad c = -5$

70. $f(x) = |x - 4|, \quad c = 4$