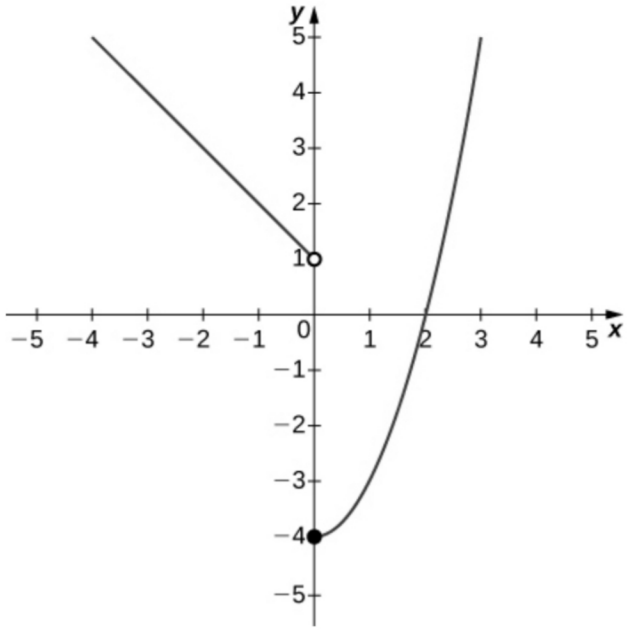
Graphical Limits

55-58:



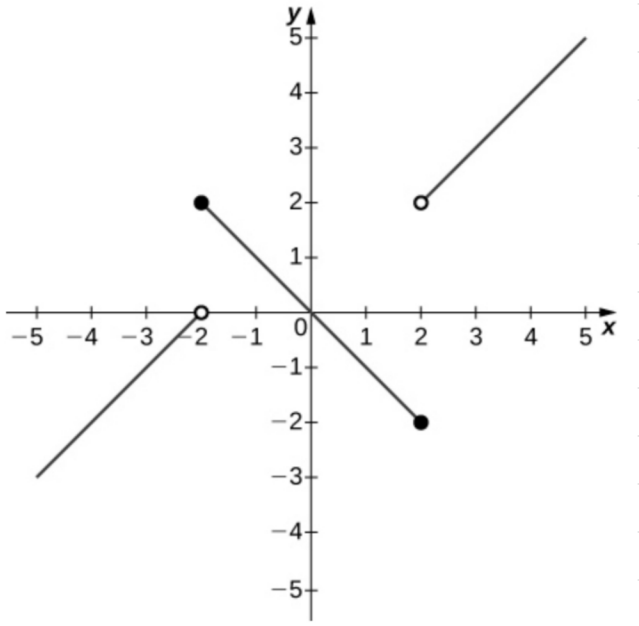
55. $\lim_{x \to 0^-} f(x) = 1$ b/c as x gets close to 0 on the left, $f(x)$ approaches 1.

56. $\lim_{x \to 0^+} f(x) = -4$ b/c as x gets close to 0 on the right, $f(x)$ approaches -4.

57. $\lim_{x \to 0} f(x)$ DNE b/c $\lim_{x \to 0^-} f(x) \neq \lim_{x \to 0^+} f(x)$

58. $\lim_{x \to 2} f(x) = 0$ b/c as x approaches 2 on the left and right, $f(x)$ approaches 0.

59-64:



59. $\lim_{x \to -2^-} f(x) = 0$

60. $\lim_{x \to -2^+} f(x) = 2$

61. $\lim_{x \to -2} f(x)$ DNE

b/c $\lim_{x \to -2^-} f(x) \neq \lim_{x \to -2^+} f(x)$

62. $\lim_{x \to 2^-} f(x) = -2$

63. $\lim_{x \to 2^+} f(x) = 2$

64. $\lim_{x \to 2} f(x)$ DNE

b/c $\lim_{x \to -2^-} f(x) \neq \lim_{x \to -2^+} f(x)$

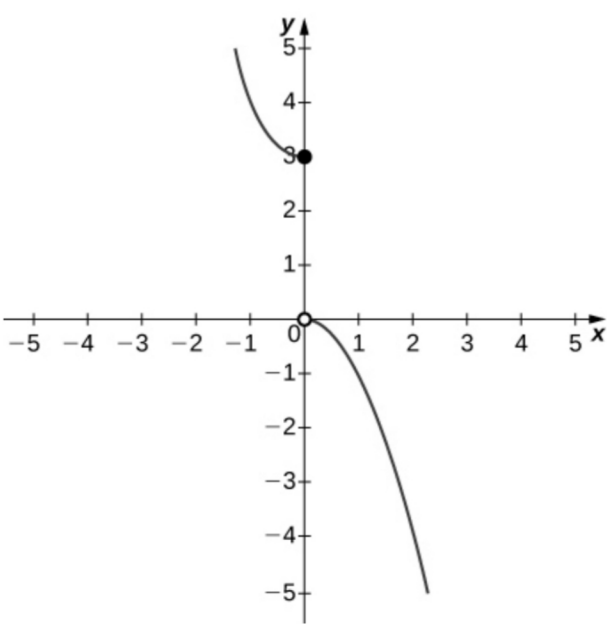
65-67:

65. $\lim_{x \to 0^-} g(x) = 3$

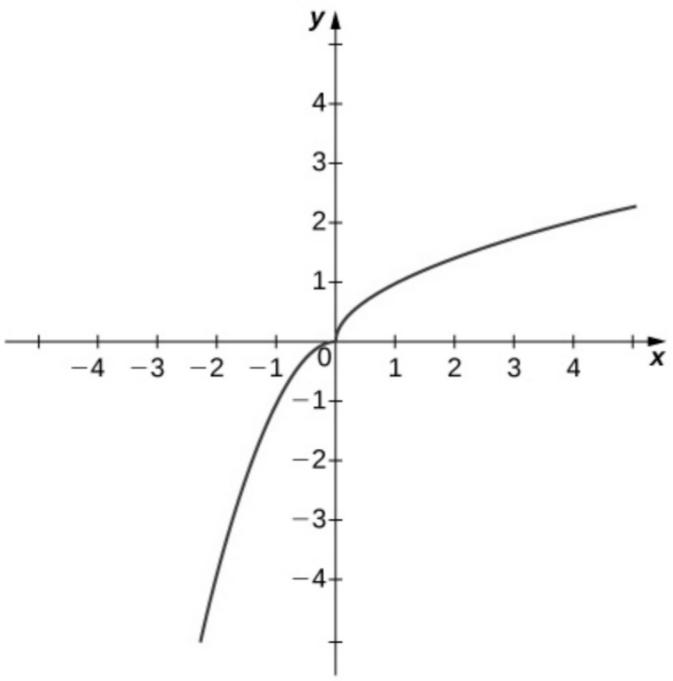
66. $\lim_{x \to 0^+} g(x) = 0$

67. $\lim_{x \to 0} g(x)$ DNE

b/c $\lim_{x \to 0^-} g(x) \neq \lim_{x \to 0^+} g(x)$



68–70:



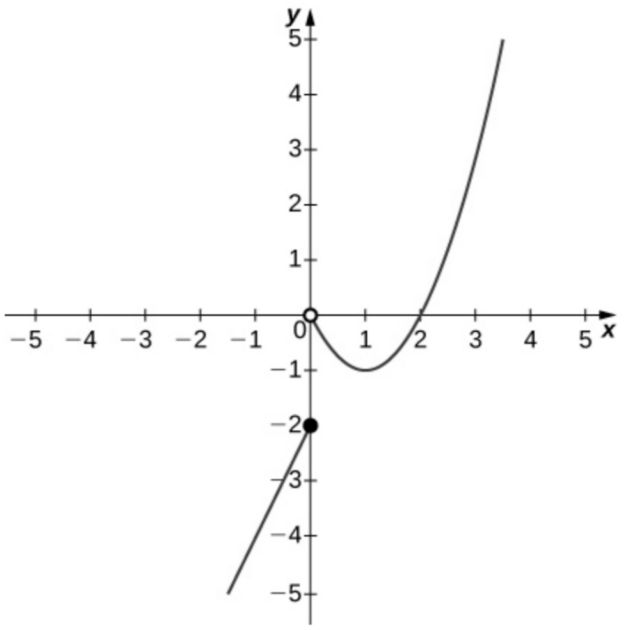
68. $\lim_{x \to 0^-} h(x) = 0$

69. $\lim_{x \to 0^+} h(x) = 0$ (NICE)

70. $\lim_{x \to 0} h(x) = 0$

b/c $\lim_{x \to 0^-} h(x) = 0 = \lim_{x \to 0^+} h(x)$

71–75:



71. $\lim_{x \to 0^-} f(x) = -2$

72. $\lim_{x \to 0^+} f(x) = 0$

23. $\lim_{x \to 0} f(x)$ DNE

b/c $\lim_{x \to 0^-} f(x) \neq \lim_{x \to 0^+} f(x)$

74. $\lim_{x \to 1} f(x) = -1$

75. $\lim_{x \to 2} f(x) = 0$