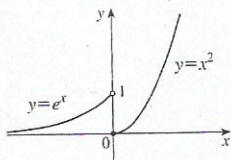
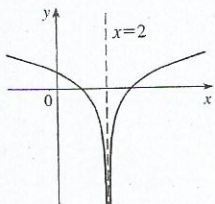
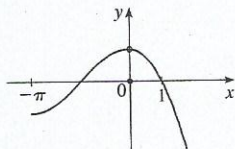


15. $f(2)$ não está definido. 17. $\lim_{x \rightarrow 0} f(x)$ não existe.



19. $\lim_{x \rightarrow 0} f(x) \neq f(0)$

21. $\{x \mid x \neq -\frac{1}{2}, \frac{1}{3}\}$

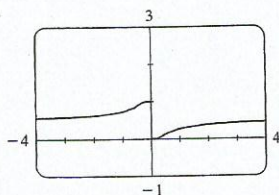


23. $[\frac{1}{2}, \infty)$

25. $(-\infty, \infty)$

27. $(-\infty, -1) \cup (1, \infty)$

29. $x = 0$

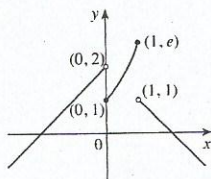
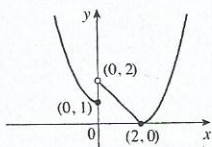


31. $\frac{2}{3}$

33. 1

37. 0, à esquerda

39. 0, à direita; 1, à esquerda



41. $\frac{2}{3}$

43. (a) $g(x) = x^3 + x^2 + x + 1$ (b) $g(x) = x^2 + x$

51. (b) (0,44, 0,45)

53. (b) 70,347

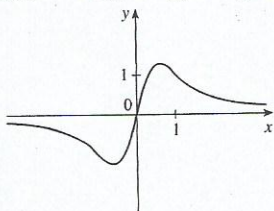
59. Nenhum

61. Sim

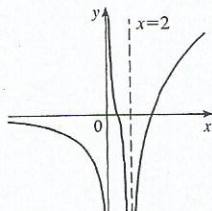
EXERCÍCIOS 2.6 ■ PÁGINA 127

1. (a) Quando x se torna grande, $f(x)$ tende a 5.
 (b) Quando x se torna um negativo grande (em módulo), $f(x)$ tende a 3.
 3. (a) ∞ (b) ∞ (c) $-\infty$ (d) 1 (e) 2
 (f) $x = -1, x = 2, y = 1, y = 2$

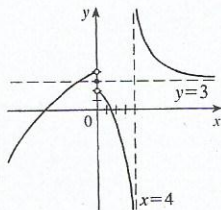
5.



7.



9.



11. 0 13. $\frac{3}{2}$ 15. 0 17. $-\frac{1}{2}$ 19. $\frac{1}{2}$ 21. 2

23. 3 25. $\frac{1}{6}$ 27. $\frac{1}{2}(a-b)$ 29. ∞ 31. $-\infty$

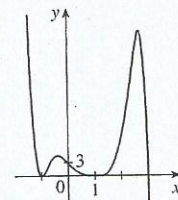
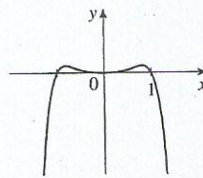
33. $-\frac{1}{2}$ 35. 0 37. (a), (b) $-\frac{1}{2}$ 39. $y = 1, x = -4$

41. $y = 2; x = -2, x = 1$ 43. $x = 5$ 45. $y = 3$

47. $f(x) = \frac{2-x}{x^2(x-3)}$

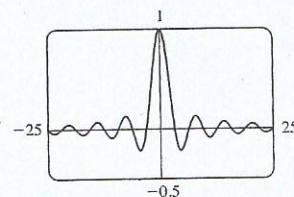
49. $-\infty, -\infty$

51. $-\infty, \infty$



53. (a) 0

(b) Um número infinito de vezes



55. (a) 0

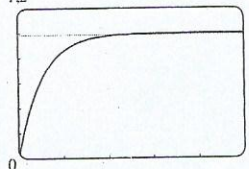
(b) $\pm\infty$

57. 5

59. (a) v^*

(b) 1.2

$\approx 0,47$ s



61. $N \geq 15$

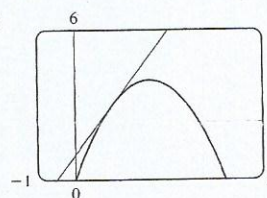
63. $N \leq -6, N \leq -22$

65. (a) $x > 100$

EXERCÍCIOS 2.7 ■ PÁGINA 136

1. (a) $\frac{f(x) - f(3)}{x - 3}$ (b) $\lim_{x \rightarrow 3} \frac{f(x) - f(3)}{x - 3}$

3. (a) 2 (b) $y = 2x + 1$ (c)



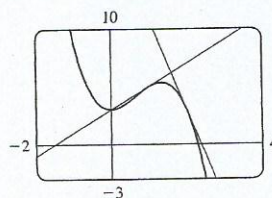
5. $y = -x + 5$

7. $y = \frac{1}{2}x + \frac{1}{2}$

9. (a) $8a - 6a^2$

(b) $y = 2x + 3, y = -8x + 19$

(c)



11. (a) À direita: $0 < t < 1$ e $4 < t < 6$; à esquerda: $2 < t < 3$; permanecendo parado: $1 < t < 2$ e $3 < t < 4$