

1.15 Limits at Infinity and Horizontal Asymptotes

Calculus

Solutions

Practice

Identify all horizontal asymptotes of each function.

1. $f(x) = \frac{(2x-4)(3x+1)}{(2x-7)^2}$

$$\frac{6x^2 + \dots}{4x^2 + \dots}$$

$$y = \frac{3}{2}$$

2. $f(x) = \frac{(2x+5)(2-6x)}{(3x-2)^2}$

$$\frac{-12x^2 + \dots}{9x^2 + \dots}$$

$$y = -\frac{4}{3}$$

3. $f(x) = \frac{(5x-1)(x^2+4)}{(5x+1)^2}$

$$\frac{5x^3 + \dots}{25x^2 + \dots}$$

No horizontal asymptote

4. $f(x) = \frac{\sqrt{25x^4+2x}}{x^2}$

Even, is always positive

$$\frac{5x^2 + \dots}{x^2}$$

$$y = 5$$

5. $f(x) = \frac{\sqrt{7x^4+3x^2+x}}{x^2+4x^2}$

$$\frac{\sqrt{7}x^2 + \dots}{x^2}$$

$$y = \sqrt{7} \text{ and } y = -\sqrt{7}$$

6. $f(x) = \frac{\sqrt{8x^4-2x^2-2x}}{2x^2+12x} + 3$

Even, is always positive

$$\frac{3x^2 + \dots}{2x^2 + \dots} + 3$$

$$y = \frac{9}{2}$$

7. $f(x) = \frac{3x}{\sqrt{9x^2-1}}$

$$\frac{3x}{3x + \dots}$$

$$y = 1 \text{ and } y = -1$$

Evaluate each limit.

8. $\lim_{x \rightarrow \infty} \frac{-x+2}{x^2+3x+2}$

$$y = 0$$

9. $\lim_{x \rightarrow 0} \left(\sin \frac{1}{x} - \frac{5x^2+2x}{3x^2} \right)$

$$\sin(0) - \frac{5}{3}$$

$$-2$$

10. $\lim_{x \rightarrow 0} (5 \cos \frac{1}{x})$

$$5 \cos(0)$$

$$5$$

11. $\lim_{x \rightarrow \infty} \frac{x^2}{4x^2} - 5$

$$0 - 5$$

$$-5$$

12. $\lim_{x \rightarrow \infty} 3^{-x} + 2$

$$\frac{1}{3} + 2$$

$$2$$

13. $\lim_{x \rightarrow \infty} -3x \cos x$

$$\text{DNE}$$

Oscillating

14. $\lim_{x \rightarrow \infty} 2x \sin x$

$$\text{DNE}$$

Oscillating

15. $\lim_{x \rightarrow \infty} \frac{9x^4+4x^2+3}{x^4+3x^2+3x^2}$

$$0$$

16. $\lim_{x \rightarrow \infty} \frac{3x^2-5x+11}{x^2-2x}$

$$3$$

17. $\lim_{x \rightarrow 0} \cos \left(\frac{2x-\pi x^2}{x^2} \right)$

$$\cos(-\pi)$$

$$-1$$

18. $\lim_{x \rightarrow \infty} \left(\frac{\sin x}{x} - 4 \right)$

$$0 - 4$$

$$-4$$

19. $\lim_{x \rightarrow \infty} \frac{-x^4-3x^2-8}{5x^4+7x^2+13}$

$$-\frac{1}{5}$$

20. $\lim_{x \rightarrow \infty} \frac{x^3+7x^2+8}{x^2+7x+2}$

$$\infty$$

21. $\lim_{x \rightarrow \infty} x^2 2^{-x}$

$$\frac{x^2}{2^x}$$

$$0$$

22. $\lim_{x \rightarrow \infty} \frac{x^2}{9^x}$

$$0$$

23. $\lim_{x \rightarrow \infty} \frac{3x^3-5x^2+6}{x^3-15x^2}$

$$\frac{3x^3}{x^3} = 3$$

$$-5$$

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