

# 1.15 Limits at Infinity and Horizontal Asymptotes

Solutions

Practice

Calculus

Identify all horizontal asymptotes of each function.

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

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

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

2.  $f(x) = \frac{(2x+5)(2-8x)}{(3x-2)^2}$

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

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

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

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

No horizontal asymptote

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

*Even, always positive*

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

$y = 5$

5.  $f(x) = \frac{\sqrt{7x^2+24x}}{x^2+4}$

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

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

6.  $f(x) = \frac{\sqrt{8x^2-24x-24}}{2x^2+1} + 3$

*Even, always positive*

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

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

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

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

$y = 1$  and  $y = -1$

Evaluate each limit.

8.  $\lim_{x \rightarrow 0} \frac{x^2+2}{x^2+3x+2}$

$y = 0$

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

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

$-2$

10.  $\lim_{x \rightarrow 0} (5 \cos \frac{x}{2})$

$5 \cos(0)$

$5$

11.  $\lim_{x \rightarrow 0} \frac{x^2}{4^x} - 5$

$0 - 5$

$-5$

12.  $\lim_{x \rightarrow 0} 3^{-x} + 2$

$\frac{1}{3^0} + 2$

$2$

13.  $\lim_{x \rightarrow 0} -3x \cos x$

**DNE**  
Oscillating

14.  $\lim_{x \rightarrow 0} 2x \sin x$

**DNE**  
Oscillating

15.  $\lim_{x \rightarrow 0} \frac{9x^2+4x^2+3}{x^2+3x^2+2x^2}$

$0$

16.  $\lim_{x \rightarrow 0} \frac{2x^2-3x+11}{x^2-2x}$

$3$

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

$\cos(-\pi)$

$-1$

18.  $\lim_{x \rightarrow 0} \left( \frac{\sin x}{x} - 4 \right)$

$0 - 4$

$-4$

19.  $\lim_{x \rightarrow 0} \frac{-x^2-3x^2-8}{2x^2+7x+13}$

$-\frac{8}{13}$

20.  $\lim_{x \rightarrow 0} \frac{x^3-7x^2+8}{x^2+7x-2}$

$\infty$

21.  $\lim_{x \rightarrow 0} x^2 2^{-x}$

$\frac{0}{2^0}$

$0$

22.  $\lim_{x \rightarrow 0} \frac{x^2}{x^2}$

$0$

23.  $\lim_{x \rightarrow 0} \frac{3x^2-2x^2+6}{x^2-12x^2}$

$\frac{6}{-12}$

$-5$

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**R Barnett**



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right  $2 \frac{8}{dy}$

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web we can calculate this answer in steps we start with differentiating in terms of the left most variable in  $xyz$  so here we start by taking the derivative with respect to  $x$  first  $f_x = 4\cos 4x yz$  then  $f_{xx} = 16\sin 4x yz$   $f_{xxy} = 16z\cos 4x yz$  finally  $f_{xxyz} = 16\cos 4x yz - 16yz\sin 4x yz$