



Figure 1.16 $\lim_{x \rightarrow \pm\infty} \frac{1}{x} = 0$

EXAMPLE 1 In Figure 1.16, we can see that $\lim_{x \rightarrow \infty} 1/x = \lim_{x \rightarrow -\infty} 1/x = 0$. The x -axis is a horizontal asymptote of the graph $y = 1/x$.

The theorems of Section 1.2 have suitable counterparts for limits at infinity or negative infinity. In particular, it follows from the example above and from the Product Rule for limits that $\lim_{x \rightarrow \pm\infty} 1/x^n = 0$ for any positive integer n . We will use this fact in the following examples. Example 2 shows how to obtain the limits at $\pm\infty$ for the function $x/\sqrt{x^2+1}$ by algebraic means, without resorting to making a table of values or drawing a graph, as we did above.

EXAMPLE 2 Evaluate $\lim_{x \rightarrow \infty} f(x)$ and $\lim_{x \rightarrow -\infty} f(x)$ for $f(x) = \frac{x}{\sqrt{x^2+1}}$.

Solution Rewrite the expression for $f(x)$ as follows:

$$\begin{aligned} f(x) &= \frac{x}{\sqrt{x^2 \left(1 + \frac{1}{x^2}\right)}} = \frac{x}{\sqrt{x^2} \sqrt{1 + \frac{1}{x^2}}} && \text{Remember } \sqrt{x^2} = |x|. \\ &= \frac{x}{|x| \sqrt{1 + \frac{1}{x^2}}} \\ &= \frac{\operatorname{sgn} x}{\sqrt{1 + \frac{1}{x^2}}}, && \text{where } \operatorname{sgn} x = \begin{cases} 1 & \text{if } x > 0 \\ -1 & \text{if } x < 0. \end{cases} \end{aligned}$$

The factor $\sqrt{1 + (1/x^2)}$ approaches 1 as x approaches ∞ or $-\infty$, so $f(x)$ must have the same limits as $x \rightarrow \pm\infty$ as does $\operatorname{sgn}(x)$. Therefore (see Figure 1.15),

$$\lim_{x \rightarrow \infty} f(x) = 1 \quad \text{and} \quad \lim_{x \rightarrow -\infty} f(x) = -1.$$

Limits at Infinity for Rational Functions

The only polynomials that have limits at $\pm\infty$ are constant ones, $P(x) = c$. The situation is more interesting for rational functions. Recall that a rational function is a quotient of two polynomials. The following examples show how to render such a function in a form where its limits at infinity and negative infinity (if they exist) are apparent. The way to do this is to *divide the numerator and denominator by the highest power of x appearing in the denominator*. The limits of a rational function at infinity and negative infinity either both fail to exist or both exist and are equal.

EXAMPLE 3 (Numerator and denominator of the same degree) Evaluate $\lim_{x \rightarrow \pm\infty} \frac{2x^2 - x + 3}{3x^2 + 5}$.

Solution Divide the numerator and the denominator by x^2 , the highest power of x appearing in the denominator:

$$\lim_{x \rightarrow \pm\infty} \frac{2x^2 - x + 3}{3x^2 + 5} = \lim_{x \rightarrow \pm\infty} \frac{2 - (1/x) + (3/x^2)}{3 + (5/x^2)} = \frac{2 - 0 + 0}{3 + 0} = \frac{2}{3}.$$

EXAMPLE 4 (Degree of numerator less than degree of denominator) Evaluate $\lim_{x \rightarrow \pm\infty} \frac{5x + 2}{2x^3 - 1}$.

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Table of Contents Statistics And Calculus A First Course

1. Understanding the eBook Statistics And Calculus A First Course
 - The Rise of Digital Reading Statistics And Calculus A First Course
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistics And Calculus A First Course
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Statistics And Calculus A First Course
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics And Calculus A First Course
 - Personalized Recommendations
 - Statistics And Calculus A First Course User Reviews and Ratings

- Statistics And Calculus A First Course and Bestseller Lists
- 5. Accessing Statistics And Calculus A First Course Free and Paid eBooks
 - Statistics And Calculus A First Course Public Domain eBooks
 - Statistics And Calculus A First Course eBook Subscription Services
 - Statistics And Calculus A First Course Budget-Friendly Options
- 6. Navigating Statistics And Calculus A First Course eBook Formats
 - ePub, PDF, MOBI, and More
 - Statistics And Calculus A First Course Compatibility with Devices
 - Statistics And Calculus A First Course Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statistics And Calculus A First Course
 - Highlighting and Note-Taking Statistics And Calculus A First Course
 - Interactive Elements Statistics And Calculus A First Course
- 8. Staying Engaged with Statistics And Calculus A First Course
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statistics And Calculus A First Course
- 9. Balancing eBooks and Physical Books Statistics And Calculus A First Course
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statistics And Calculus A First Course
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Statistics And Calculus A First Course
 - Setting Reading Goals Statistics And Calculus A First Course
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Statistics And Calculus A First Course
 - Fact-Checking eBook Content of Statistics And Calculus A First Course
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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