



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:

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

The factor  $\sqrt{1 + (1/x^2)}$  approaches 1 as  $x$  approaches  $\infty$  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  $\lim_{x \rightarrow \pm\infty} \frac{5x + 2}{2x^3 - 1}$ .

# Statistics And Calculus A First Course

**D. Caradog Jones**



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