



As  $x$  grows larger and larger you can see that the values of  $f(x)$  get closer and closer to 1. In fact, it seems that we can make the values of  $f(x)$  as close as we like to 1 by taking  $x$  sufficiently large. This situation is expressed symbolically by writing

$$\lim_{x \rightarrow \infty} \frac{x^2 - 1}{x^2 + 1} = 1$$

