

Source: [KBhMATH401SubIndex](#)

## 1 | Limits

### Warming up

Here's a function

$$y = \frac{1}{x}.$$

We know that it has

- Domain  $D(-\infty, 0)(0, \infty)$
- Range  $R(-\infty, 0)(0, \infty)$
- As  $x \rightarrow \infty$ ,  $y \rightarrow 0$
- Function is *odd*, that is,  $f(-x) = -f(x)$

### The Limit Notation

See [KBhMATH401TheLimitNotation](#)

### Computing Limits Algebraically

See [KBMATH401ComputingLimits](#)

### Types of Discontinuity

See [KBhMATH401Discontinuity](#)