Definition (The number e).

The limiting value of $\left(1+\frac{1}{n}\right)^n$ when n tends to infinity is denoted by e i.e., $e = e = \lim_{n \to \infty} \left(1+\frac{1}{n}\right)^n = 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \frac{1}{4!} + \dots \infty = 2.71$ (Nearly)