Mathematical Functions using R

- Powers and Roots

$$x^2, \quad \frac{1}{x^3}, \quad \sqrt{x}, \quad \sqrt[3]{x}$$

- Logarithms
  1) Natural Logarithm : $\text{Log}_e(x)$ also denoted as $\text{Ln}(x)$
  2) Logarithms to other bases ,e.g. $\text{Log}_2(x)$

- Exponentials

$$e^x$$

- Absolute Values.

$$|x|$$

Mathematical Functions using R

Powers and Roots

- Positive Powers x^2
- Negative Powers

$$\frac{1}{x^n} = x^{-n}$$

- Square Root

$$\sqrt{x} = x^{1/2}$$

- Other Roots

$$\sqrt[n]{x} = x^{1/n}$$