Maths for Algorithms

Maths from Maths for Computer Science MIT 6.042

L3.2.1 Asymptotic Notation

Asymptotic Equvalene - Ref: 1

Def: f(n) ˜ g(n) the ˜ read as asymptotical equal / equivalent

$$\lim_{x \to \infty} \frac{f(n)}{g(n)} = 1 \tag{1}$$

Summation Eqn.2

$$\sum_{x=1}^{n} x^2 = 1 \tag{2}$$

Product Sequence Eqn.3

$$\prod_{x=1}^{n} x^2 = 1 \tag{3}$$