

Definite integral example

Calculate definite integral of function for border values

$$\int_1^2 x^2 \cdot dx = \left[\frac{x^3}{3} \right]_1^2 = \frac{2^3}{3} - \frac{1^3}{3} = \frac{8}{3} - \frac{1}{3} = \frac{7}{3} = 2 \frac{1}{3}$$