

The function $f(x) = (x - 3)^2 + \frac{1}{2}$ has domain $D_f : (-\infty, \infty)$ and range $R_f : [\frac{1}{2}, \infty)$

$$\lim_{x \rightarrow a}$$

$$\int \sin x \, dx = -\cos x + C$$

$$\int_a^b$$

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$$\sum$$

$$\int_a^b f(x) \, dx = \lim_{n \rightarrow \infty} \sum_{k=1}^n f(x_k) \cdot \Delta x$$

$$\vec{v} = v_1 \vec{i} + v_2 \vec{j} = \langle v_1, v_2 \rangle$$