

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

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

$$\lim_{x \rightarrow a^-} f(x)$$

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$$\lim_{x \rightarrow a^-} \frac{f(x) - f(a)}{x - a} = f'(a)$$

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$$\int \sin x \, dx$$

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

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$$\int_a^b$$

$$\int_a^b$$

$$\int_a^b$$

$$\int_a^b$$

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$$\int_a^b$$

$$\vec{v} = v_1 \vec{x} + v_2 \vec{y} = \langle v_1, v_2 \rangle$$