My First Document

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A sentence of text.
text text text

$$\sqrt{y^2}$$

$$\sqrt[x]{y^2}$$

$$\sum_{x=1}^{5} y^z$$

$$\int_a^b f(x)$$

$$\lim_{x \to 0} \frac{3x^2 + 7x^3}{x^2 + 5x^4} = 3.$$

$$\sum_{k=1}^{n} k^2 = \frac{1}{2} n(n+1).$$

$$\int_a^b f(x)\,dx.$$

$$\int_0^{+\infty} x^n e^{-x}\,dx = n!.$$

$$\int \cos\theta\,d\theta = \sin\theta.$$

$$\int_{x^2+y^2 \leq R^2} f(x,y)\,dx\,dy = \int_{\theta=0}^{2\pi} \int_{r=0}^{R} f(r\cos\theta, r\sin\theta) r\,dr\,d\theta.$$

$$\int_0^R \frac{2x\,dx}{1+x^2} = \log(1+R^2).$$

$$\int_0^1 \int_0^1 x^2 y^2\,dx\,dy.$$

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$$\iint_D f(x,y)\,dx\,dy.$$

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$$\int_{-\infty}^{+\infty} f(x)\,dx.$$