1 Introduction

$\int\limits_0^1 x^2 + y^2 dx$

Integral expression $\int\limits_0^1 x^2 + y^2 dx$

2 More detailed examples

$x_1^2+y_1^2=z_2^2, x^{2\alpha}-1 = y_{ij} + y_{ij}, (a^n)^{r+s} = ar^{nr+ns}$

Linear equation $x_1^2 + y_1^2 = z_2^2, x^{2\alpha} - 1 = y_{ij} + y_{ij}, (a^n)^{r+s} = ar^{nr+ns}$

3 Operators using subscripts and superscripts

$\sum_{i=1}^\infty \frac{1}{n^s} = \prod_p (\frac{1}{1-p^{-s}})$

4 sqrt

$\sqrt[4]{4ac} = \sqrt{4ac}.\sqrt{4ac}$

5 Reference guide

L^AT_EX markup	Renders as
`a_{n_i}`	a_{n_i}
`\int_{i=1}^{n}`	$\int_{i=1}^{n}$
`\sum_{i=1}^{\infty}`	$\sum_{i=1}^{\infty}$
`\prod_{i=1}^n`	$\prod_{i=1}^{n}$
`\cup_{i=1}^n`	$\cup_{i=1}^{n}$
`\cap_{i=1}^n`	$\cap_{i=1}^{n}$
`\oint_{i=1}^n`	$\oint_{i=1}^{n}$
`\coprod_{i=1}^n`	$\coprod_{i=1}^{n}$
`\subset_{i=1}^n`	$\subset_{i=1}^{n}$
`\supset_{i=1}^n`	$\supset_{i=1}^{n}$