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1 Introduction

$$\int_0^1 x^2 + y^2 dx$$
 Integral expression $\int_0^1 x^2 + y^2 dx$

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

$L^A T_E X$ markup	Renders as
a_{n_i}	a_{n_i}
$\int int_{i=1}^{n}$	$\int_{i=1}^{n}$
$\sum_{i=1}^{\int_{i=1}^{i}}$	$\sum_{i=1}^{\infty}$
$\displaystyle \frac{i=1}^n$	$\prod_{i=1}^{n}$
$\sup_{i=1}^n$	$\bigcup_{i=1}^n$
$cap_{i=1}^n$	$\cap_{i=1}^n$
$\int \int \int d^2n$	$\oint_{i=1}^n$
$\coprod_{i=1}^n$	$\coprod_{i=1}^{n}$
$\subset_{i=1}^n$	$\subset_{i=1}^n$
$\supset_{i=1}^n$	$\supset_{i=1}^n$