

a second paragraph containing display math

after display math

another math : $y = 2 \sin \theta^2$

$$\int_{-\infty}^{+\infty} x^{e^2} dx$$

$$Q_{n,0} = 1 \quad Q_{0,k} = [k = 0];$$

$$Q_{n,k} = Q_{n-1,k} + Q_{n-1,k-1} + \binom{n}{k}, \quad \text{for } n, k > 0.$$

$$\begin{array}{ccc} a & b & c \\ d & e & f \end{array} \quad \begin{pmatrix} a & b & c \\ d & e & f \end{pmatrix} \quad \begin{bmatrix} a & b & c \\ d & e & f \end{bmatrix}$$

1. `\mathrm` roman (upright)
2. `\mathit` italic spaced as 'text'
3. `\mathsf` boldface
4. `\mathsf` sans serif
5. `\mathtt` monospaced
6. `\mathbb` double-struck (blackboard bold) (provided by the `amsfonts` package)

bad use $size \neq size \neq size$

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