

If we want expressions such as

$$\lim_{x \rightarrow +\infty}$$

$$\inf_{x > s}$$

$$\sup_K$$

we can use:

```
%
\[ \lim_{x \rightarrow +\infty} \]
%
\[ \inf_{x > s} \]
%
\[ \sup_K \]
%
```

Summations can be obtained as follows:

```
[ \sum_{i=0}^{2n-1} a_i x^i ]
```

which produces

$$\sum_{i=0}^{2n-1} a_i x^i$$

Integrals such as

$$y = \int_0^1 f(x) dx$$

can be obtained by code such as

```
[ y = \int_0^1 f(x) \mathrm{d}x ]
```

L^AT_EX sometimes places too much space between integral signs, especially when typing double-integral expressions. For example, we do not want

$$z = \int \int_A f(x, y) dx dy$$

we would rather

$$z = \iint_A f(x, y) dx dy$$

This reduced spacing is achieved with the \! control sequence. To format the above integral, three of these are placed between the integral signs. Note that we have also used \, to add a little spacing between the dx and dy:

```
[ z = \int\!\!\!\!\!\int_A f(x,y) \, \mathrm{d}x \, \mathrm{d}y ]
```