

## EXAMPLE DOCUMENT

MATT DECROSS

Now we can add some text to our example document. I'm going to add enough text to make it wrap onto a second line. Now we can add some text to our example document. I'm going to add enough text to make it wrap onto a second line. Now we can add some text to our example document. I'm going to add enough text to make it wrap onto a second line. Now we can add some text to our example document. I'm going to add enough text to make it wrap onto a second line.

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Now I'm going to add an equation:  $x^2 + 1 = 0$ . I can just keep typing a normal sentence, and add another equation  $1 + 1 = 3$ . Here's a centered equation:

$$x^2 + 1 = 0.$$

If I continue typing, it resumes paragraph mode. Here's a different centered equation:

$$x^2 + 2 = 0. \tag{1}$$

Another deprecated equation environment:

$$x^2 + 5 = 0.$$

A good way of centering equations is by using the align environment:

$$x^2 + 3 = 0. \tag{2}$$

Here's a reference to equation (2). To suppress numbers, add stars to things:

$$x^2 + 4 = 0.$$

Using the align\* environment lets you line up things

$$\begin{aligned} x^2 + 5 &= 0 \\ x^3 + x^2 + 6 &= 0 \end{aligned}$$

Most math commands are entered using a slash. Compare  $2x3 = 5$  with  $2 \times 3 = 5$ . No, it's  $2 + 4 = 6$ . Exponents are  $2^3 = 8$ , subscripts are  $a_n$ . To put multiple symbols in a super(sub) script, use braces:  $2^{12} = 4096$ . (Compare to  $2^12 = 4096$ ). Here's a fraction  $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$ .

I am now going to include an image:



FIGURE 1. This is a lovely picture of a cat.

Here is a reference to that figure: Figure 1. Here's a reference to (2).

$$\begin{array}{|c|c|c|c|} \hline a & b & c & d \\ \hline c & d & e & f \\ \hline \end{array}$$
$$\frac{\text{word } b \ c}{\sum \quad d \ e}$$

One other thing to mention is that quotes are a little weird in  $\text{\LaTeX}$ . You need to use the accents next to the number “1” on the left side. If you use normal double quotes for both sides you get one ”backwards”.

Here's how to make a list of things, which is useful:

- This is item 1
- This is item 2

What if we want it numbered?

- (1) This is item 1
- (2) This is item 2

What if we want it lettered?

- (a) This is the first item
- (b) This is the second.

I'm going to cite [1] here.

## REFERENCES

- [1] This is reference 1.
- [2] This is ref 2.