December 20, 2013

Hello **world**, *here* is my `first` document! This is not a comment

2. This is an item
3. This is another item
   (a) here is a subpart
   (b) here is another subpart
4. This is the third item.

Here is some math x^2 and y_k

This is some more advanced subscripts and superscripts

x^{123} and y_{ijk}.

Let's mix and match x^{2_i} or x^{123}_{xyz}

$$
\begin{aligned}
0 &= 3x^3 + 3x^2 - 6x && (1)\\
&= 3(x^3 + x^2 - 2x) && (2)\\
&= 3x(x^2 + x - 2) && (3)\\
&= 3x(x+2)(x-1) && (4)\\
&\therefore && (5)\\
x &= 0, -2, 1 && (6)\\
& && (7)\\
& && (8)
\end{aligned}
$$

h1	h2	h3
a	b	This is the size of my column

Here some different matrices.

bmatrix $\begin{bmatrix} 1 & 2 & 3 \\ a & b & 3 \end{bmatrix}$

pmatrix $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ a & b & 3 & d & e \end{pmatrix}$

Here is a fraction $\frac{x^2}{x^3} = \frac{1}{x}$

Here is a **another** fraction $\dfrac{x^2}{x^3} = \dfrac{1}{x}$

Here is a squre root $\sqrt{16} = 4$

Here is a integral $\int_a^b f(x)dx$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

```
#!/usr/bin/env python
import os
if True:
    print os.path
```

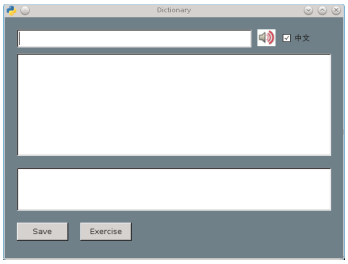

Figure 1: A simple caption

How to add image to LaTeX