Document

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March 31, 2014

Part I

Section 1

```
• Try LATEX; \sum_{i=1}^{n} x_i = \sin(\pi/2)
```

• import numpy

```
In [3]: import numpy as np
```

Have some variables

```
In [4]: x = np.arange(0, 10, 0.1)
                                         0.4,
                                              0.5, 0.6,
Out [4]: array([ 0. ,
                      0.1,
                            0.2,
                                  0.3,
                                                           0.7,
                                                                 0.8,
                                                                        0.9,
                1.1,
                      1.2,
                             1.3,
                                   1.4,
                                         1.5,
                                              1.6, 1.7,
                                                           1.8,
                                                                 1.9,
                                                                        2.,
        2.1,
                                                                  3.,
                2.2,
                     2.3,
                             2.4,
                                   2.5,
                                         2.6,
                                              2.7, 2.8,
                                                           2.9,
                                                                        3.1,
        3.2,
                3.3, 3.4,
                             3.5,
                                   3.6,
                                         3.7,
                                               3.8,
                                                     3.9,
                                                           4.,
                                                                 4.1,
                                                                        4.2,
        4.3,
                4.4, 4.5,
                             4.6,
                                   4.7,
                                         4.8,
                                               4.9,
                                                     5.,
                                                           5.1,
                                                                 5.2,
                                                                        5.3,
        5.4,
                5.5, 5.6,
                             5.7,
                                   5.8,
                                        5.9,
                                               6.,
                                                     6.1,
                                                           6.2,
                                                                  6.3,
                                                                        6.4,
        6.5,
                6.6, 6.7,
                             6.8,
                                   6.9,
                                        7., 7.1,
                                                     7.2,
                                                           7.3,
                                                                 7.4,
                                                                       7.5,
        7.6,
                7.7, 7.8,
                             7.9, 8.,
                                         8.1, 8.2,
                                                     8.3,
                                                           8.4,
                                                                  8.5,
                                                                       8.6,
        8.7,
                8.8, 8.9, 9., 9.1, 9.2, 9.3, 9.4,
                                                           9.5,
                                                                9.6,
                                                                       9.7,
        9.8,
                9.9])
```

Make some fancy plots

```
In [5]: from matplotlib.pyplot import *
In [6]: plot(x, sin(x))
```

Out [6]: [<matplotlib.lines.Line2D at 0x2fd05d0>]

