APSC 1001 Homework 1 Solutions

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Problem 1

```matlab
1  for i = 1:3
2      if i ≥ 5 && a ≠ b        % literate programming replacement
3          disp('cool');              % comment with some LaTeX in it:  $\pi x^2$
4      end
5      [:,ind] = max(vec);
6      x_last = x(1,end) - 1;
7      v(end);
8      really really long really really long really really long ...
9          really really long really really long line % blaaaaaaaa
9      ylabel('Voltage ($\mu$V)');
10 end
```

```matlab
1  %% APSC 1001 Example Document
2
3  % Randy Schur
4  % 9/18/15
5  %% Example 1
6  clear all
7  close all
8
9  t = 0:1000;          %create sample numbers
10 x = 2 + .25*randn(1,1001);      %create random samples
11 plot(t, x, 'r.')          %plot random samples
12 hold on
13
14 sample_mean = mean(x);      %calculate mean
15 sample_stddev = std(x);      %calculate standard deviation
```