

Lab 3 – Prelab

```
% Define the various values of the gain K and set b,  
K = [-10 -1 -.5 0 .5 1 5 10 100];  
b = 1;  
  
% Compute the Step Response of the System for each K.  
for i = 1:length(K)  
    num = [K(i)];           % Define the numerator,  
    den = [1 b K(i)];       % Define the denominator.  
    sys = tf(num, den);  
    figure  
    step(sys);  
    title(['Step Response K = ', num2str(K(i))]);  
end
```









