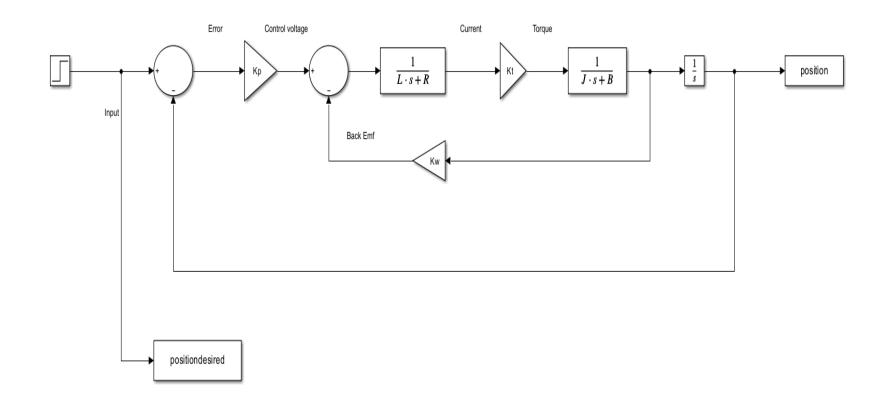
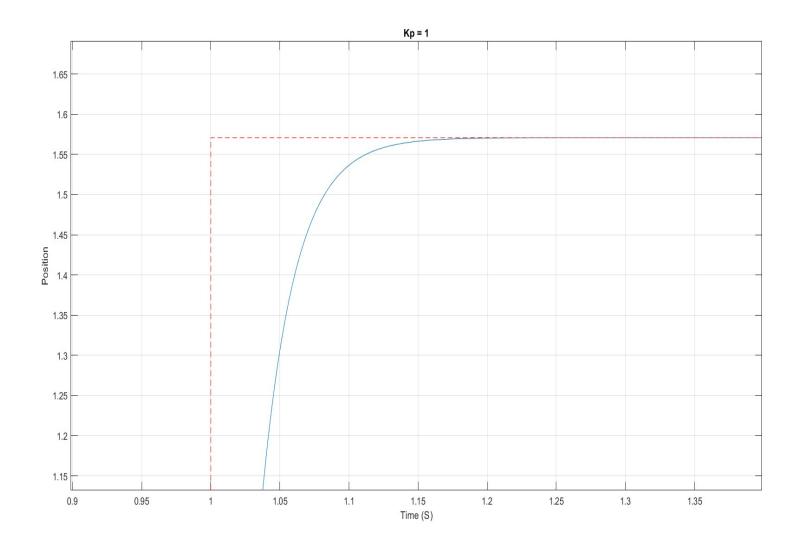
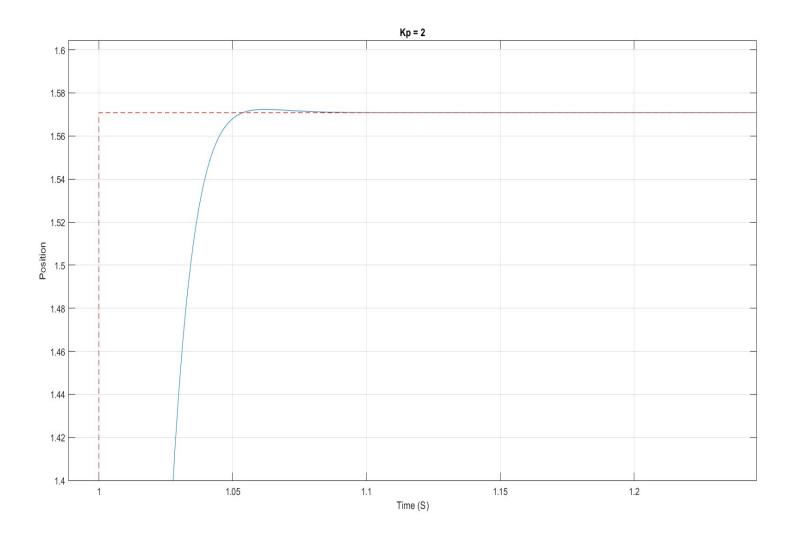
Mechatronics Assignment-2 – Position Control

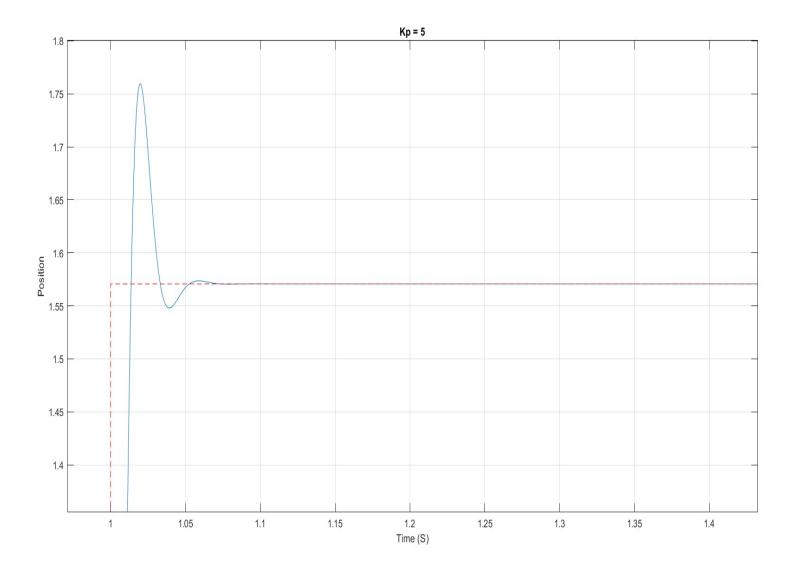
- 1. This week, find a computer where you can run Matlab and Simulink------Installed the Matlab and Simulink
- 2. We will model a 2nd order system based on controlling the Position of a motor
- 3. Please turn in 8 plots plus a screen shot of your Simulink model 3. 1. Below is the Model with Step Response

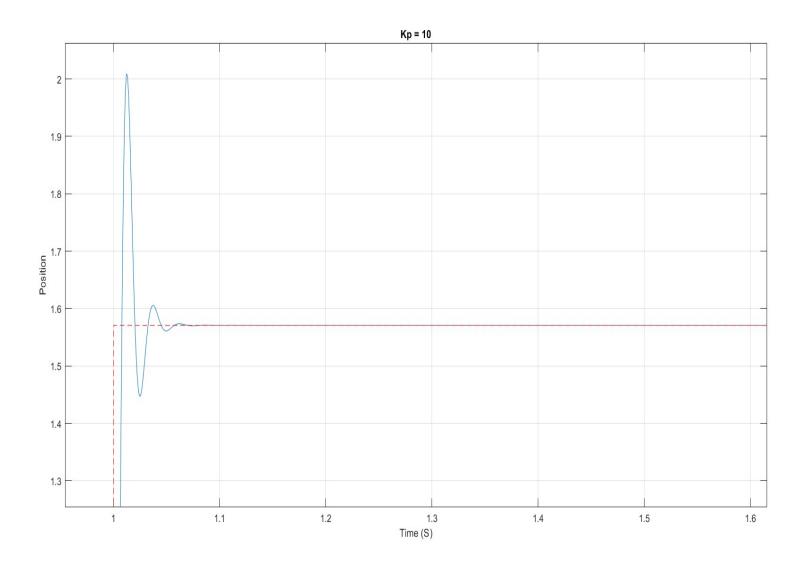






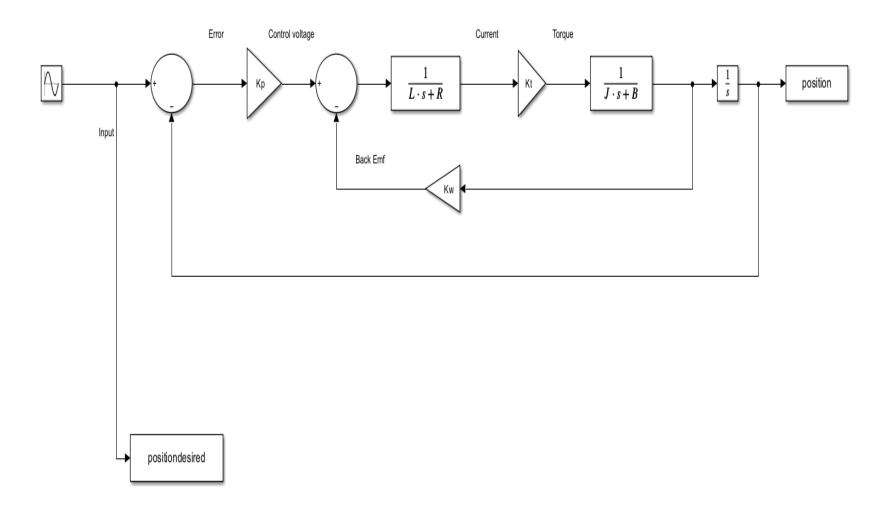


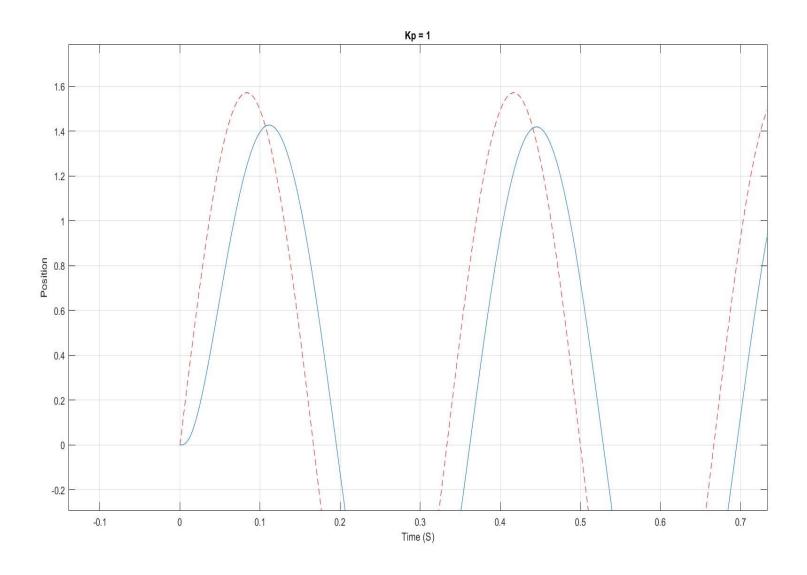


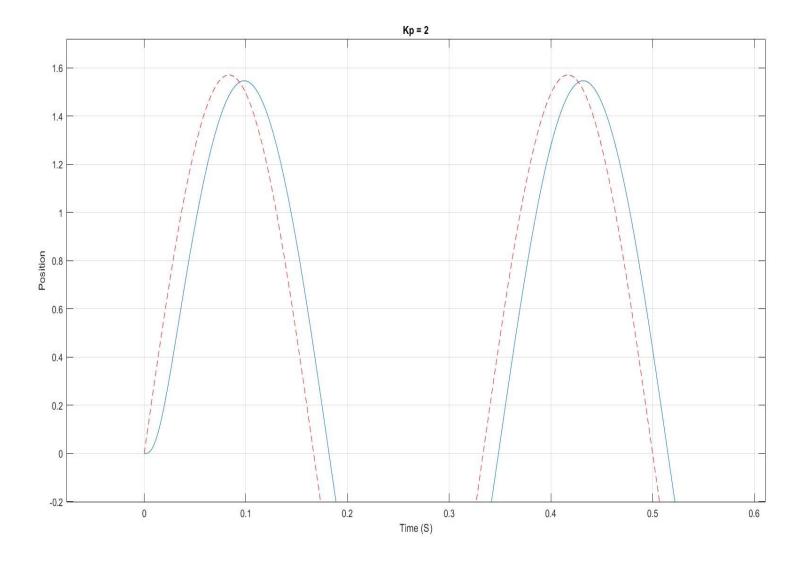


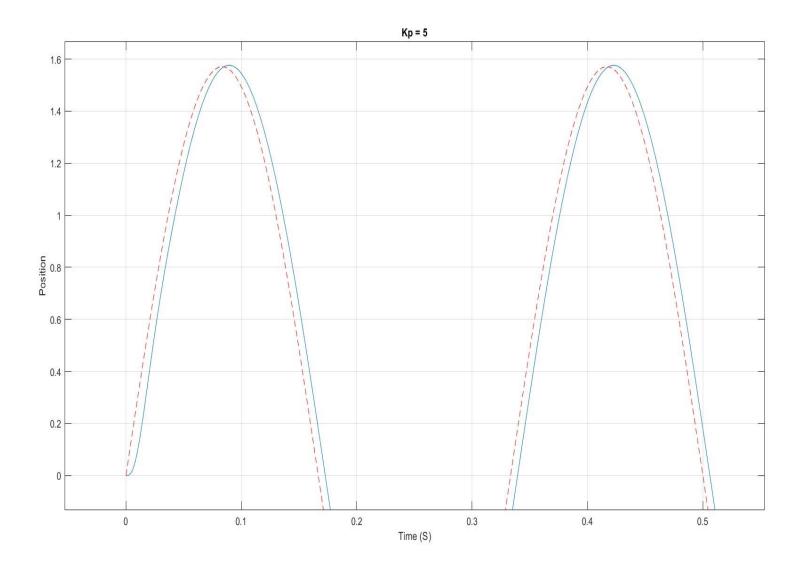
3.2. Below is the Model with Sinusoidal Response

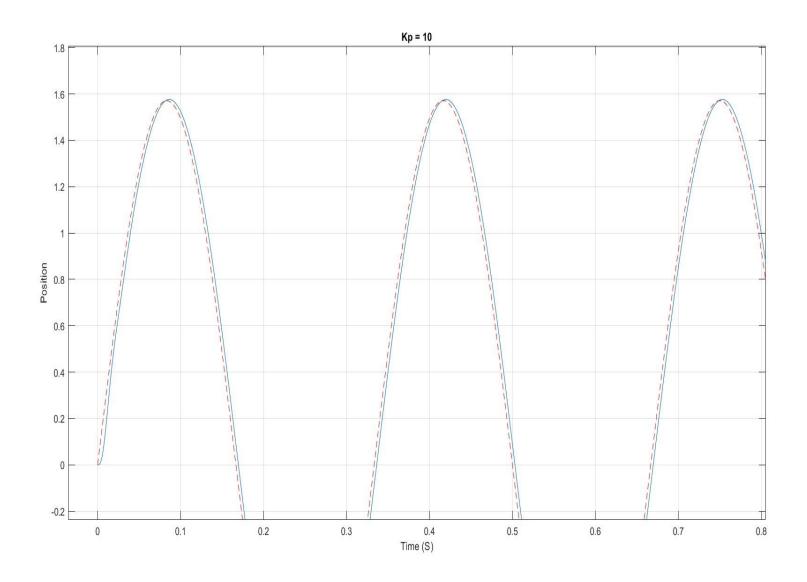






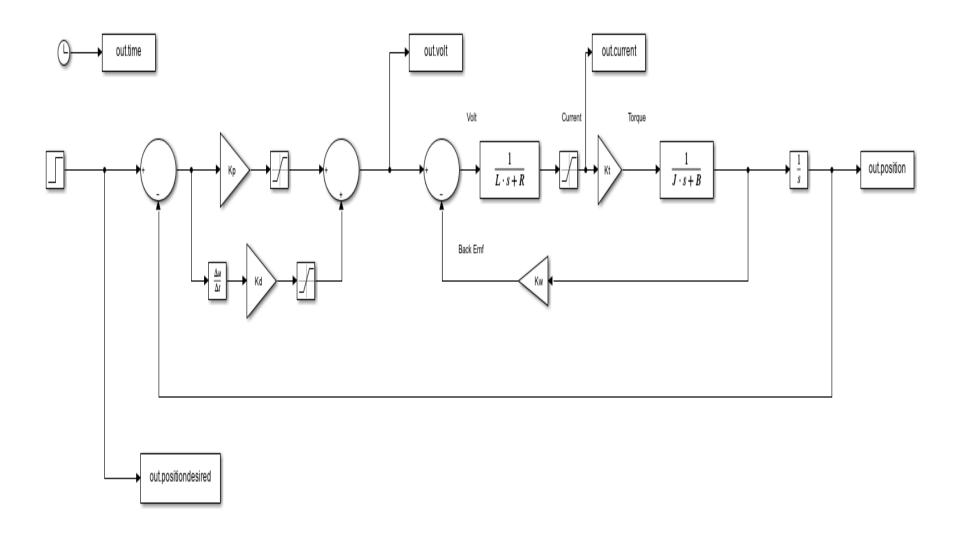


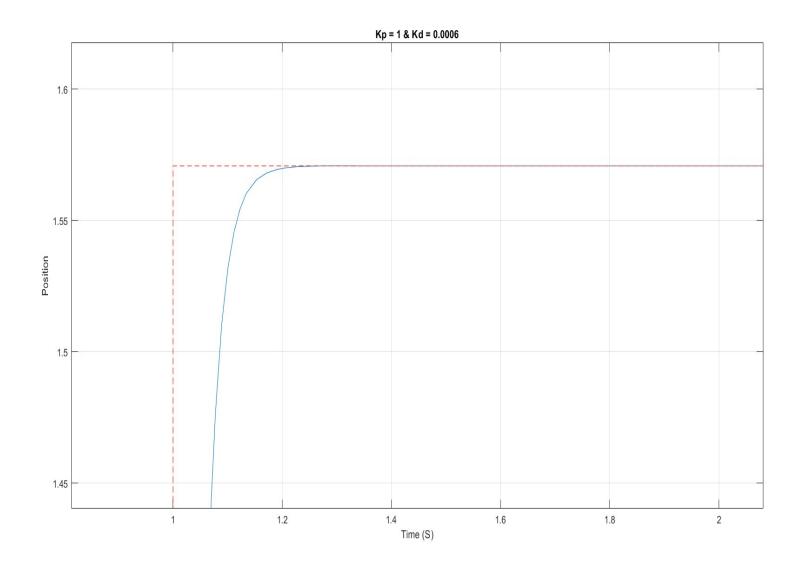




4. Develop a model with both Kp and Kd and make sure there is no overshoot

The Step response with both Kp and Kd and has no overshoot





The sinusoidal response with both Kp and Kd and has no overshoot

