Controls Homework due Friday, February 29, 2008

For all problems – find the asked for values without using the cursors on the Matlab® root locus plot. You may (and should) use other Matlab® commands.

1. B-6-2
   • Find the break-in point
   • Using the angle and magnitude criteria find the location and gain where the settling time is 2 seconds.

2. B-6-4
   • Find the break-away point
   • Find the jw-axis crossing and gain using
     i. Routh Hurwitz
     ii. Angle and magnitude criteria
   • Angle of departure from complex poles.