## Assignment 7 Root Locus

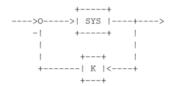
Nusair Islam

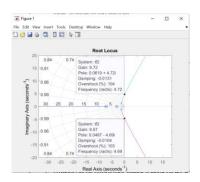
1

$$\mathsf{TF1} = \frac{1}{s(s+3)(s+7)}$$

The system I modeled was utilizing unity feedback, and I calculated the TF of the unity feedback system. I will use the same TF -> Sys formula for rlocus in MatLAB

$$\mathsf{Sys1} = \frac{Tf1}{1 + Tf1}$$





You can see gain the two points I used to find gain is pretty close, I will say Ku ~ 9.65

