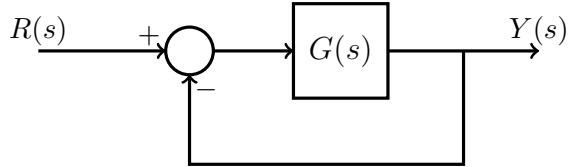
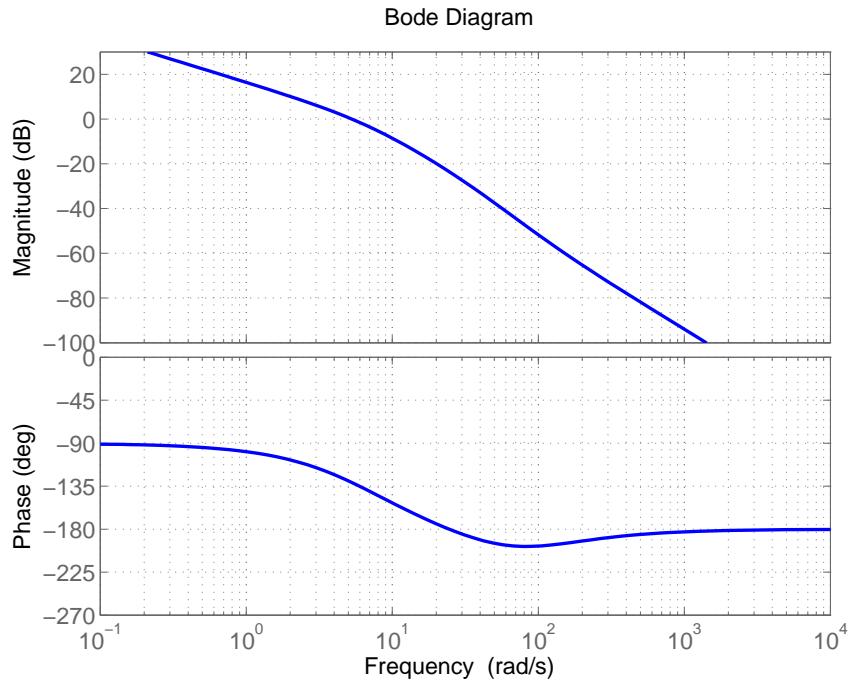


EENG307: Intro to Feedback Control
 Fall 2020
 Homework Assignment #11
 Quiz #6

Quiz Question Monday: Consider following unity gain feedback system.



The following is the Bode plot of $G(s)$, which has all poles in the left half plane, except for one pole at $s = 0$. Sketch the Nyquist plot and find the phase and gain margins



- (a) $GM = 12.6, \phi_{PM} = 90^\circ$
- (b) $GM = 12.6, \phi_{PM} = 45^\circ$
- (c) $GM = 12.6, \phi_{PM} = \infty$
- (d) $GM = 0.08, \phi_{PM} = 135^\circ$
- (e) $GM = 22, \phi_{PM} = -45^\circ$