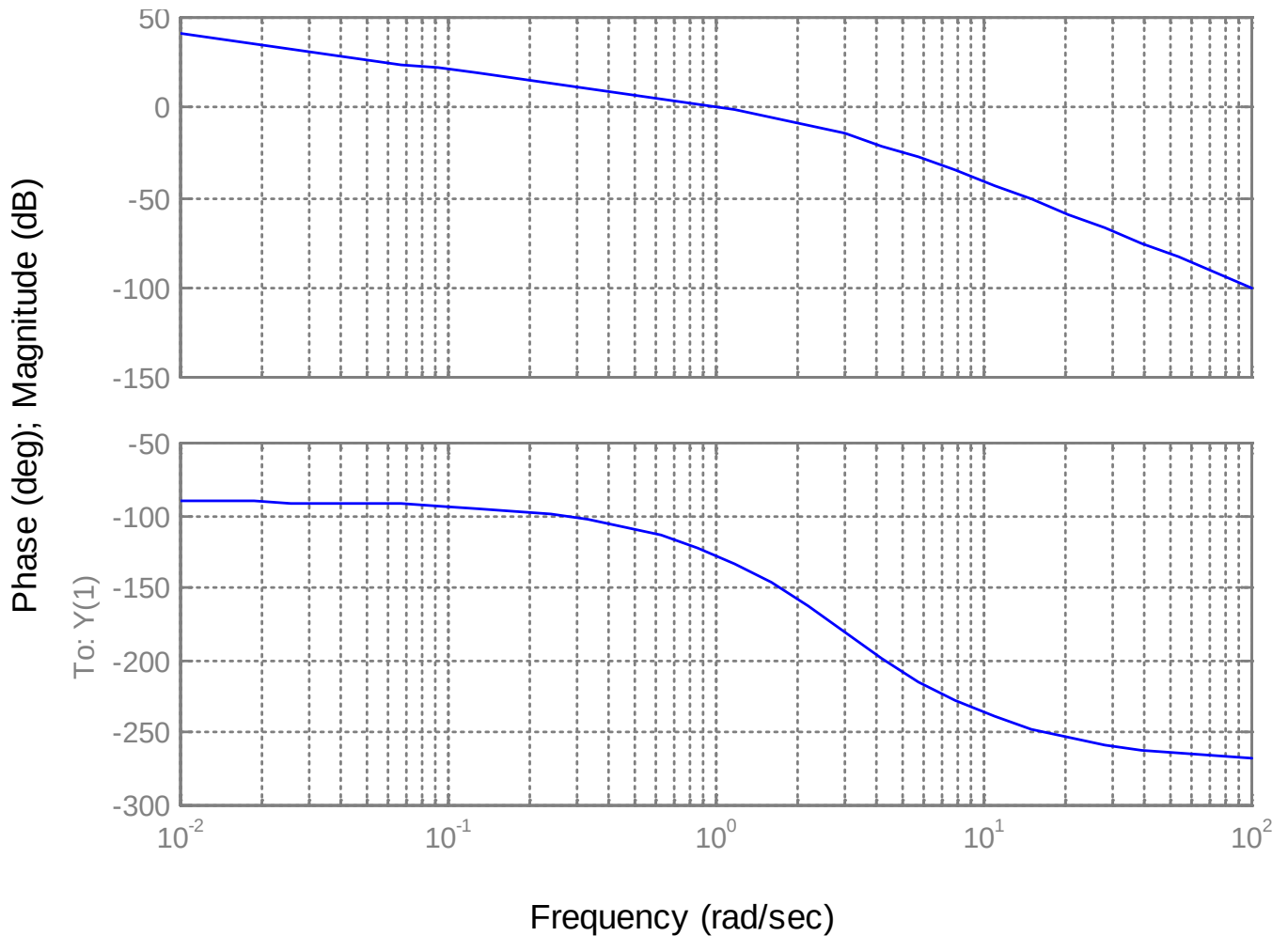


EE 475 Fall 2011 Quiz #12

Name: _____

1. In a unity feedback set-up, the open-loop transfer function $G(s)$ is stable and minimum phase with all real coefficients. The Bode plot of $G(s)$ is given below.
 - a) Find the gain crossover frequencies _____.
 - b) Find the phase margin _____.
 - c) Find the phase crossover frequencies _____.
 - d) Find the gain margin _____.
 - e) Is the closed loop stable? _____



2. If the Nyquist plot is to be generated for the above system,
 - f) For frequencies near 0^+ , the distance of the Nyquist plot points from the origin approaches: _____.
 - g) Parallel to which axis: _____.
 - h) For large frequency, where does the Nyquist plot approaches: _____.
 - i) Along which axis: _____.