True False

Date: ____

Name:

Quiz 8:

Problem 1:

Are the following true or false?

Question

The open-loop transfer function is $G_o(s) = G(s)/C(s)$ The closed path C in the s-plane for the Nyquist plot must encircle all poles of $G_o(s)$ in the sense right half plane.	
The Nyquist plot of $G_o(s)$ is a plot in the complex plane The phase of the Nyquist plot of $G_o(s)$ is a plot in the complex plane	
The basic feedback loop with a stable open-loop transfer function is stable if the Nyquist plot does not encircle the point $(-1,0)$ in clockwise direction	

Problem 2:

The following pole/zero diagram of an open-loop transfer function $G_o(s)$ is given (recall that poles are shown as crosses and zeros are shown as circles). Sketch a path C in the *s*-plane that is suitable for drawing the Nyquist plot of $G_o(s)$.

