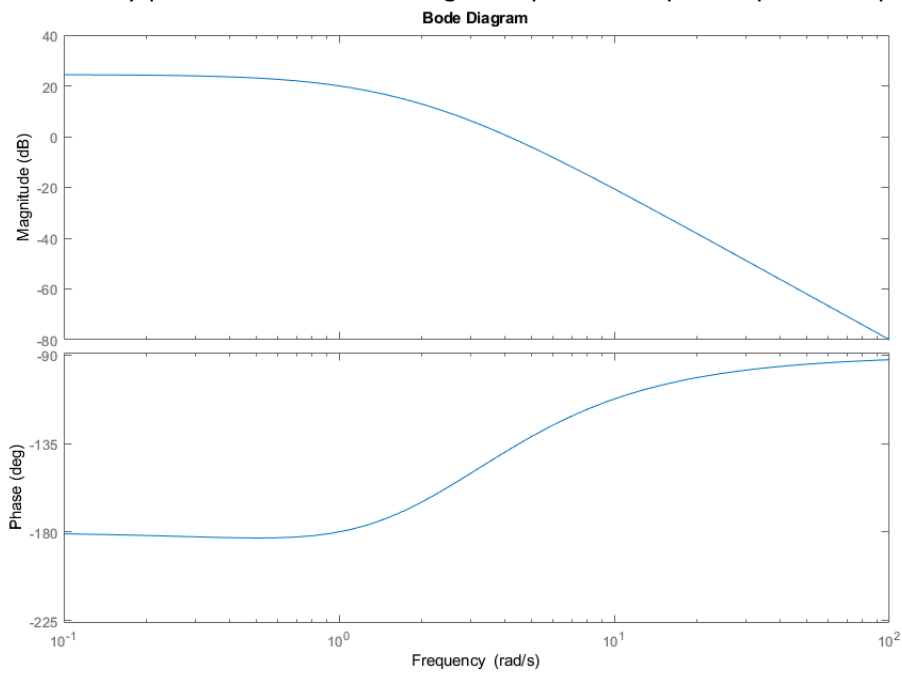
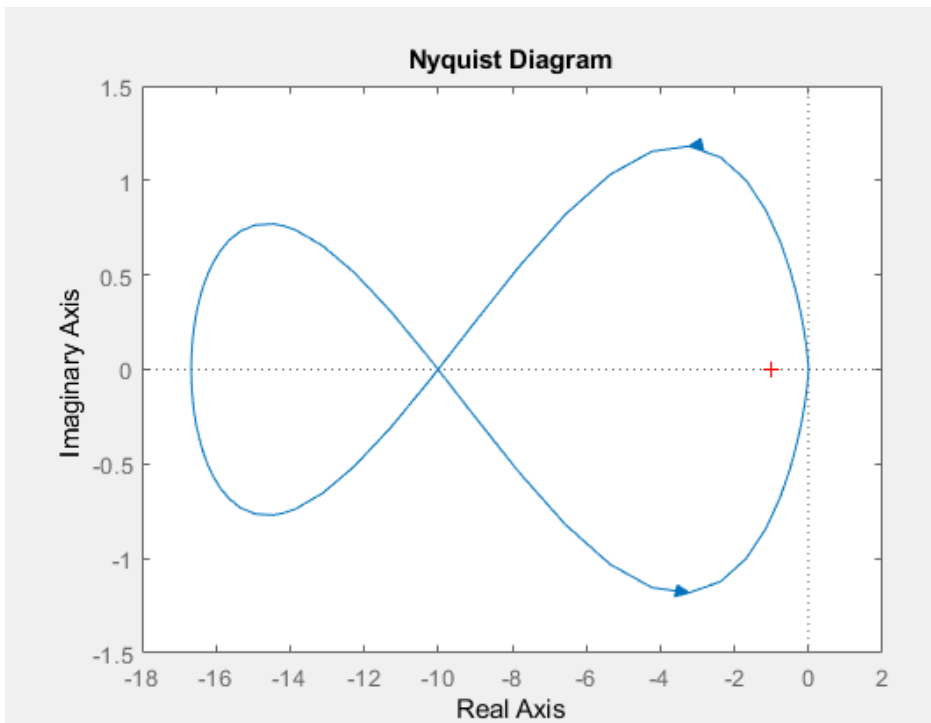


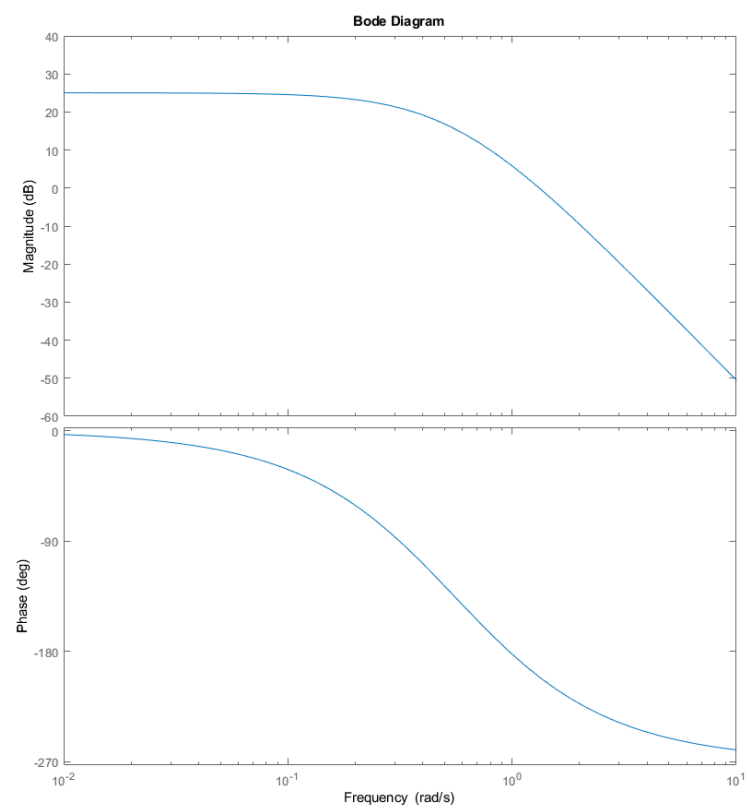
Find the Nyquist Plot for the following bode plot. The open loop has one poles in RHP, is the closed loop stable?



Freq (rad/s)	Mag (dB)	Mag	Phase= θ	$X = \text{Mag} * \cos(\theta)$	$Y = \text{Mag} * \sin(\theta)$
0.01	25.4	18.62	-180	-18.62	0
0.1	25	17.78	-181	-17.78	0.31
0.3	24	15.85	-182	-15.84	0.553
0.5	23	14.13	-183	-14.11	0.74
0.8	21	11.22	-182	-11.21	0.392
1	20	10	-180	-10	0
1.3	18	7.94	-176	-7.92	-0.554
2	13	4.47	-165	-4.32	-1.157
4	0.68	1.08	-140	-0.83	-0.694
10	-20.6	0.09	-112	-0.03	-0.083



Find the Nyquist Plot for the following bode plot. The open loop is stable, is the closed loop stable?



Freq (rad/s)	Mag (dB)	Mag	Phase	X = Re{s}	Y = Im{s}
0.01	25	17.78	0	17.78	0
0.1	24.5	16.79	-32	14.24	-8.897
0.3	21	11.22	-86	0.78	-11.19
0.7	12	3.98	-156	-3.64	-1.619
1	5.8	1.95	-182	-1.95	0.068
1.26	1	1.12	-198	-1.07	0.346
5	-32	0.03	-251	-0.01	0.028

