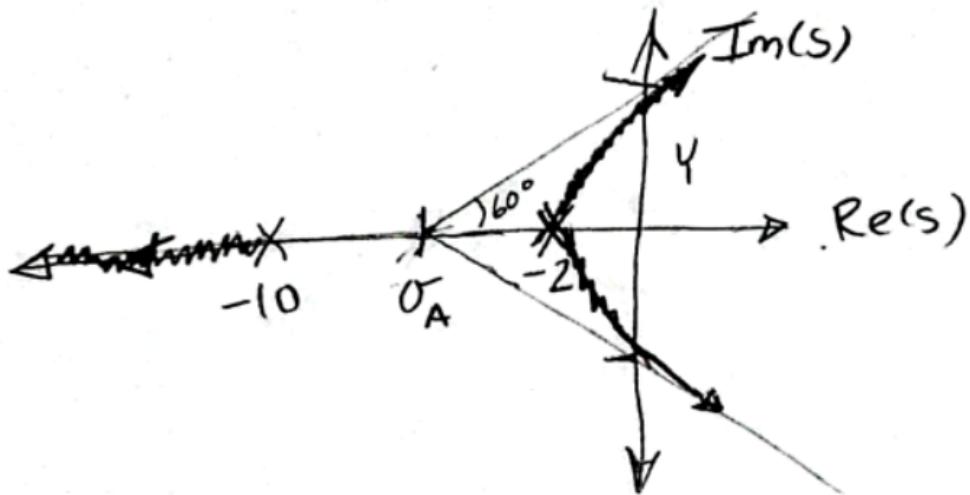


Sketch Root Locus:  $L(s) = \frac{1}{(s+2)^2(s+10)}$



$$\sigma_A = -\frac{14}{3} = 4.7$$

$$\phi_A = \frac{2\pi + 1}{3} + 180^\circ = 60^\circ, 180^\circ, 300^\circ$$