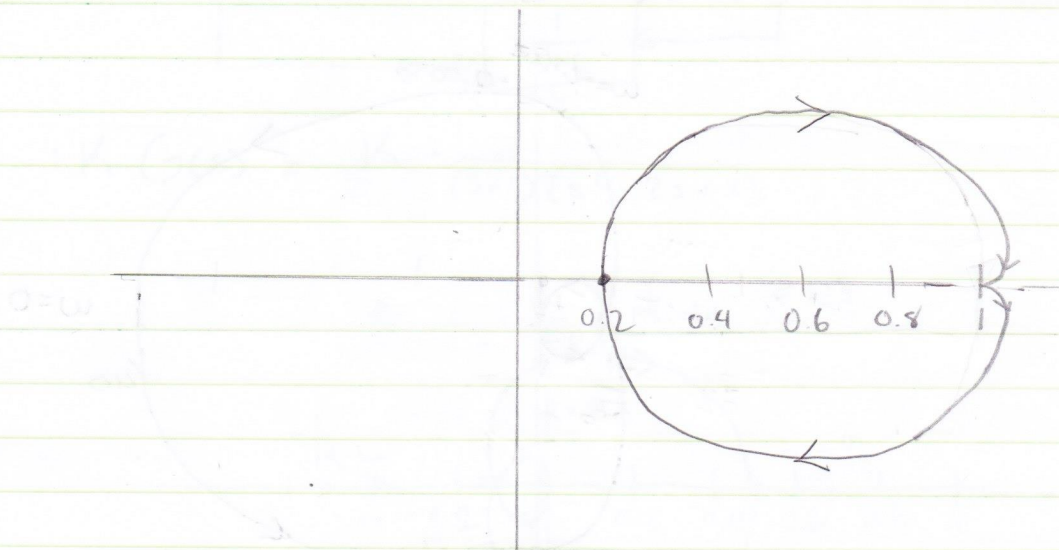


6.19 a

$$K G(s) = K \frac{s+2}{s+10}$$



$$G(j\omega) = \frac{j\omega+2}{j\omega+10}$$

$$G(j0) = \frac{2}{10}$$

$\lim_{r \rightarrow \infty}$

$$\frac{re^{j\theta} + 2}{re^{j\theta} + 10} = \frac{re^{j\theta}}{re^{j\theta}} = 1 \cdot e^{j(0-0)} = 1 \cdot e^{j0}$$

for $-\frac{\pi}{2} > \theta > -\frac{\pi}{2}$ $G(re^{j\theta}) = 1 \cdot e^{j0}$