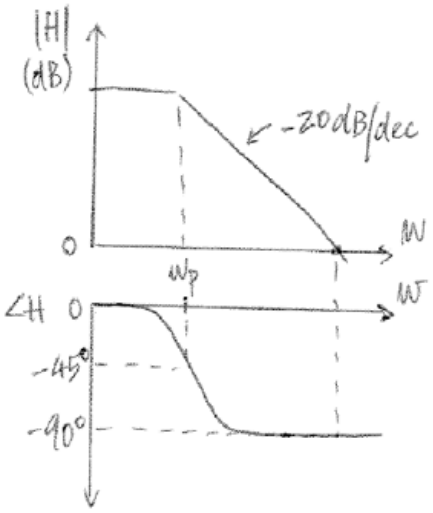
12.65

$$H(s) = \frac{A_0}{1 + \frac{s}{\omega_p}} \qquad K = 1.$$

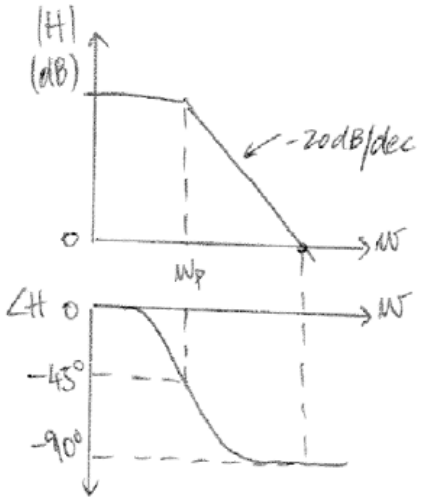


∴ Phase margin
$= 180° - 90° = 90°$

(i.e. system is stable.)

12.66

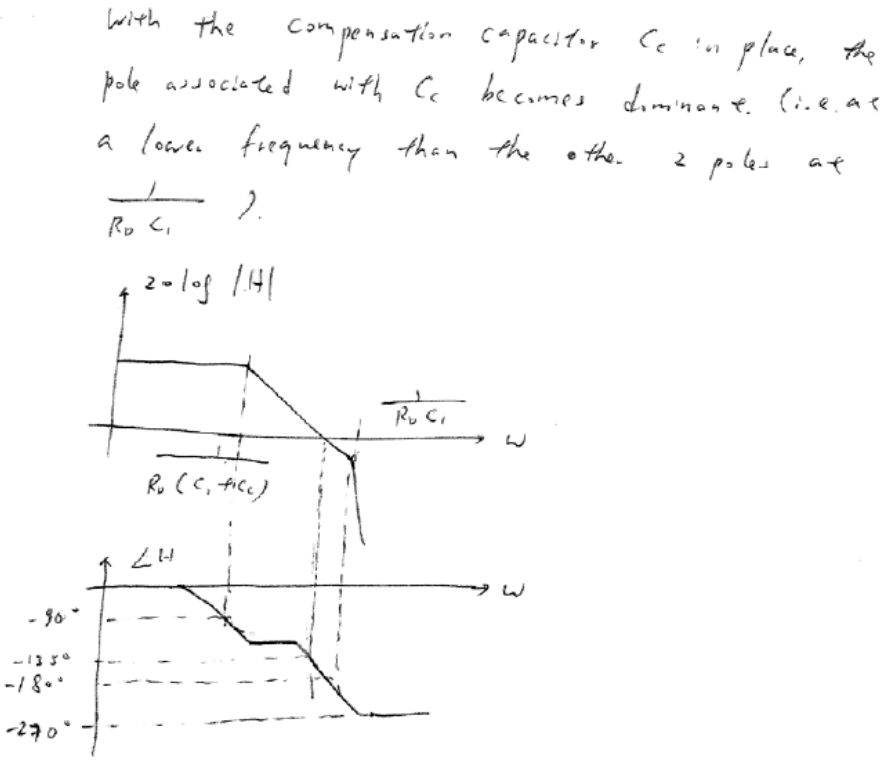
$$H(s) = \frac{A_0}{1 + \frac{s}{\omega_p}} \qquad K = 0.5$$



Phase margin = 90°

(independent of K for one-pole systems.)

12.70



9.1.1 n=11

9.1.2 V_0=1.9V

9.1.7 $V_0 = \frac{V_R V_{REF}}{3R \cdot 2^n} \sum_{i=0}^{n-1} 2^i D^i$

9.2.1 t=5us

9.2.5 t=3us

9.2.6 $V_1 < V_{REF}$

9.2.7 V_1=-1.107V

9.2.11 流水线 10 个；并行 1023 个

9.2.12 转换级数，转换时间，采样时间

9.2.13 全并行（Flash, A/D）