

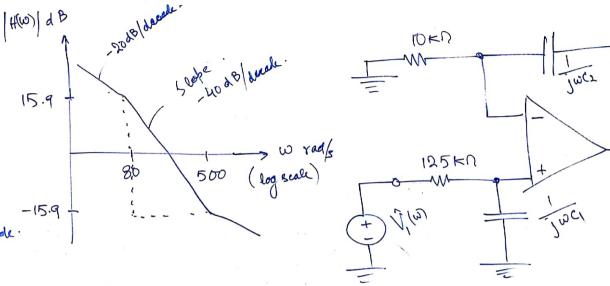
stup: Slope decreases at pole therefore 80 rad/s is at pole. Slope increases at 240 50 500 rad/s is at 200.

step2: Slope b/w 80 rad/s & 5 to rad/s.

$$S \text{ lope} = \frac{-15.9 - 15.9}{\log \left(\frac{500}{80}\right)} = -40 \text{ dB} \frac{-15}{\text{decade}}$$

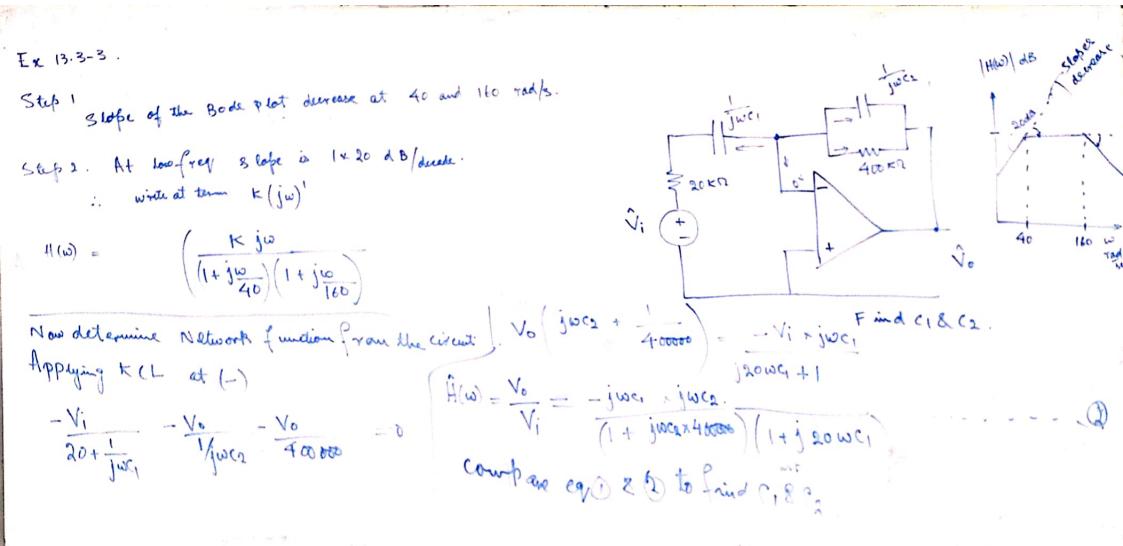
Up3. at low frey Slope = -20 dB/decade = -1 x2

$$\frac{1+j\frac{\omega}{500}}{1+j\frac{\omega}{80}}$$



(w) , V

$$V_{2} = \frac{1}{3}\omega c_{1} \qquad V_{1} = \frac{1}{3}\omega c_{1} \qquad V_{1} = \frac{1}{3}\omega c_{1} \qquad V_{2} = \frac{1}{3}\omega c_{1} \qquad V_{2} = \frac{1}{3}\omega c_{2} \qquad V_{3} = \frac{1}{3}\omega c_{1} \qquad V_{4} = \frac{1}{3}\omega c_{2} \qquad V_{4} = \frac{1}{3}\omega c_$$



Applying ECL at (-) imput:

$$\frac{0 - Vi}{20000} + \frac{0 - Vo}{400000} + \frac{0 - Vo}{1/jwc_2} = 0$$
 $Vo \left(\frac{1}{400000} + jwc_1 \right) = \frac{-Vi}{20000} + \frac{1}{jwc_1}$
 $Vo \left(\frac{1 + jwc_2 \cdot 400000}{400000} \right) = -\frac{Vi}{1 + jwc_4 \cdot 20000}$
 $H(\omega) = \frac{V_0}{V_1} = -\frac{jwc_1 \times 400000}{(1 + jwc_1 \times 20000)}$
 $= -C_1 \times 400000 \times jw$
 $1 + jw$
 $1 +$

$$40 = \frac{1}{20000 c_{1}}$$

$$c_{1} = \frac{1}{900000} = 1.25 \text{ MF}$$

$$160 = \frac{1}{400000 c_{2}}$$

$$c_{2} = \frac{1}{84000000}$$

$$= 15.625 \text{ NF}$$

$$\frac{1}{100} = \frac{1}{100}$$

JU.