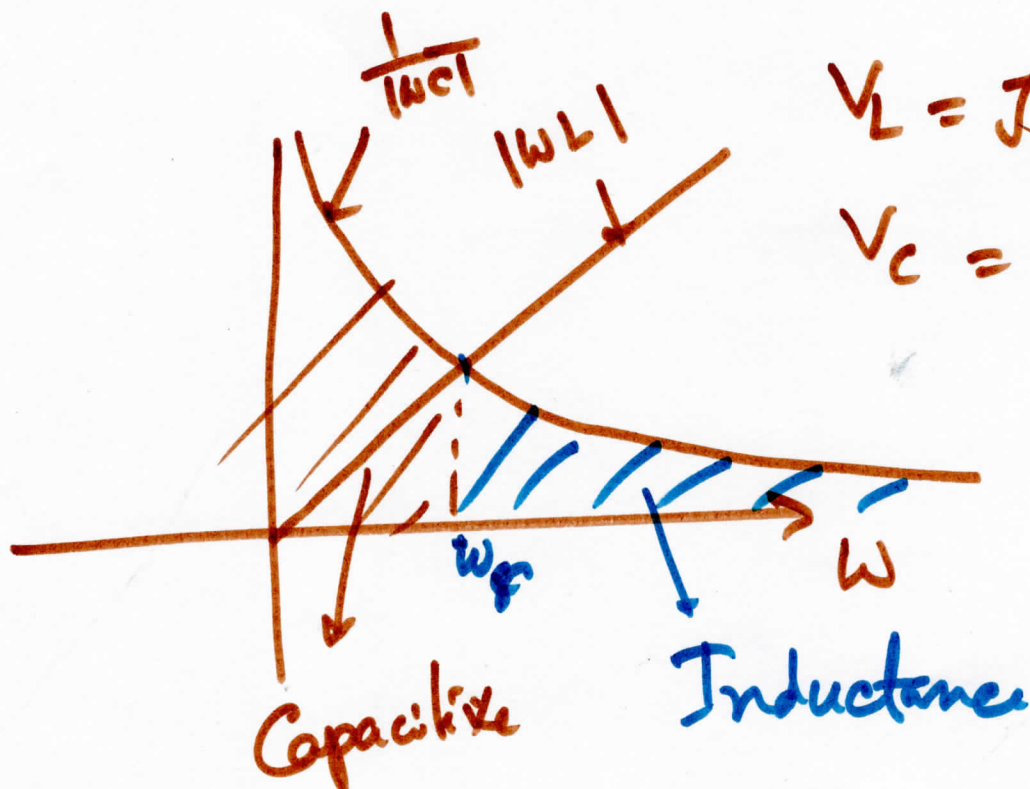


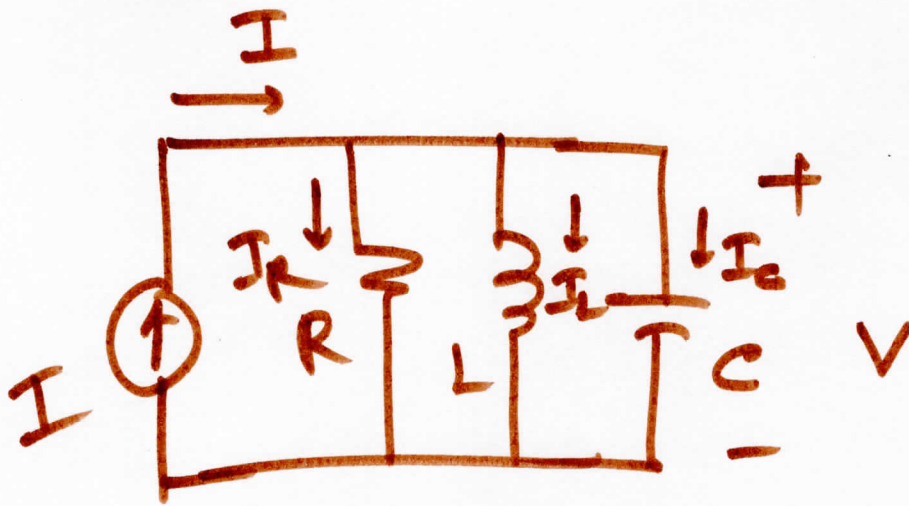
$$\frac{1}{\omega C} = \omega L$$

$$\omega = \frac{1}{\sqrt{LC}}$$



$$v_L = j\omega L \cdot I$$

$$v_C = \frac{I}{j\omega C}$$

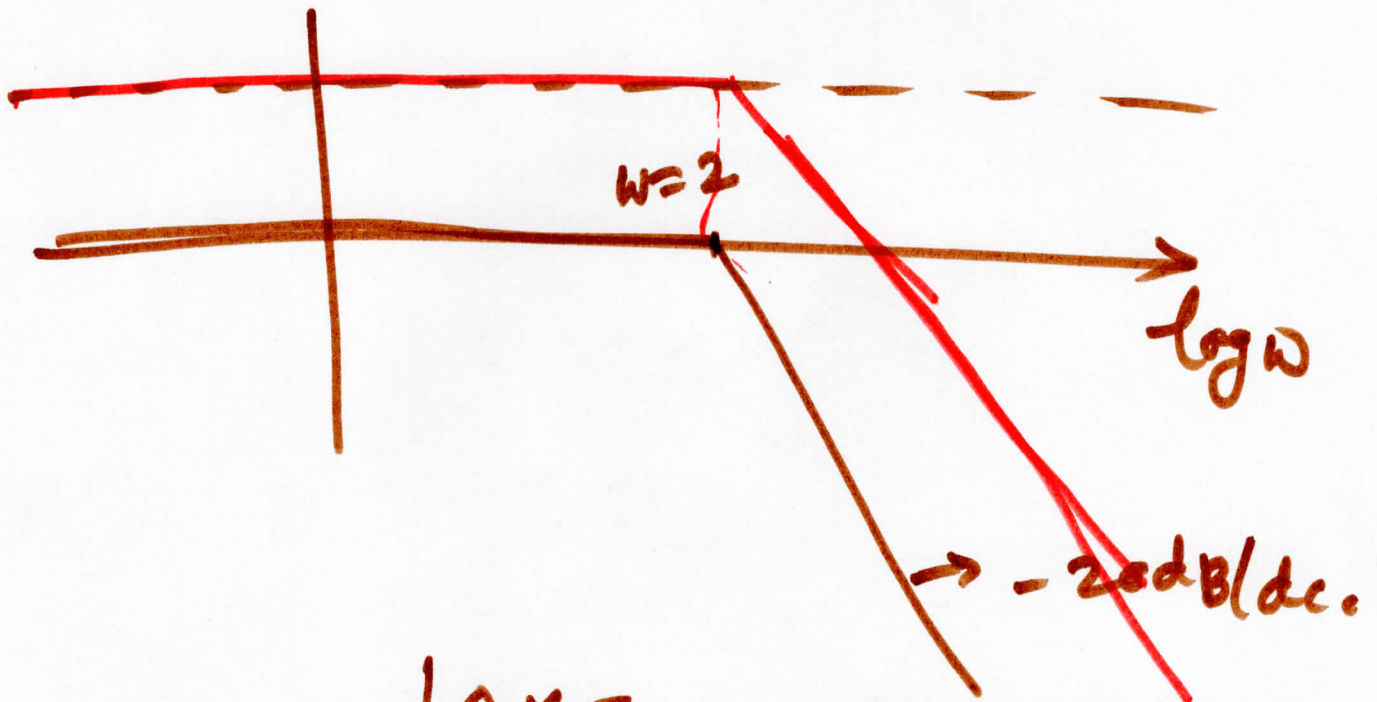


$$I_R = \frac{V}{R}$$

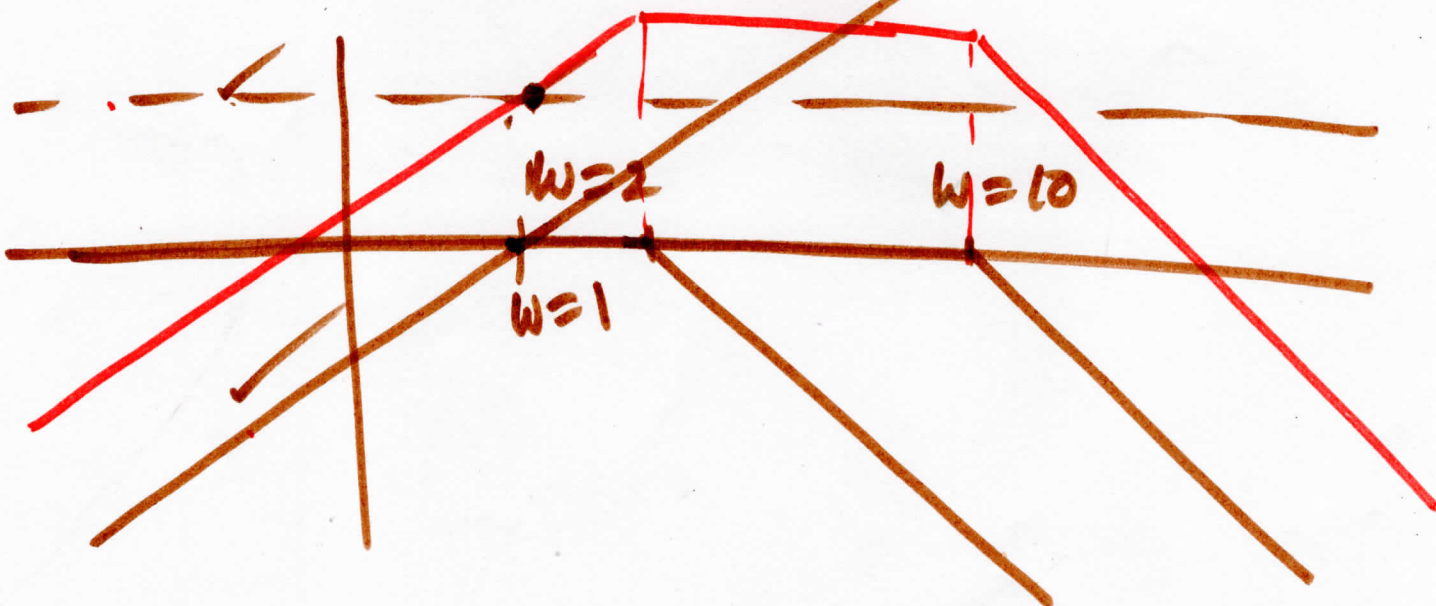
$$I_L = \frac{V}{j\omega L}$$

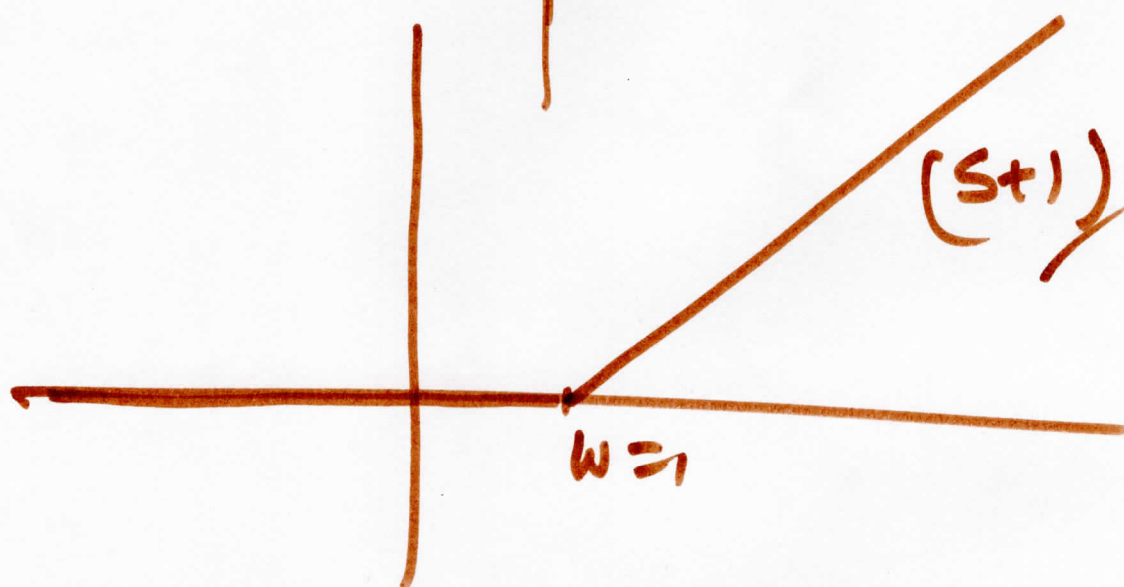
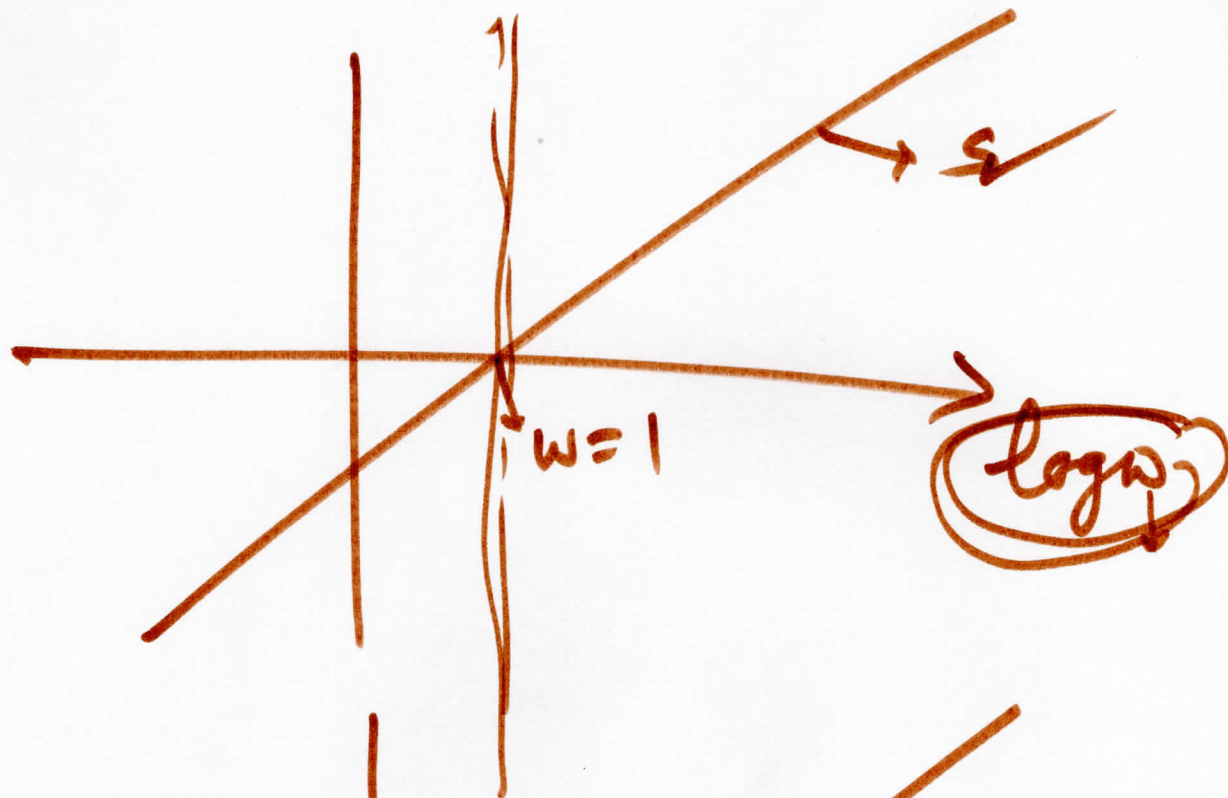
$$I_C = j\omega C V$$

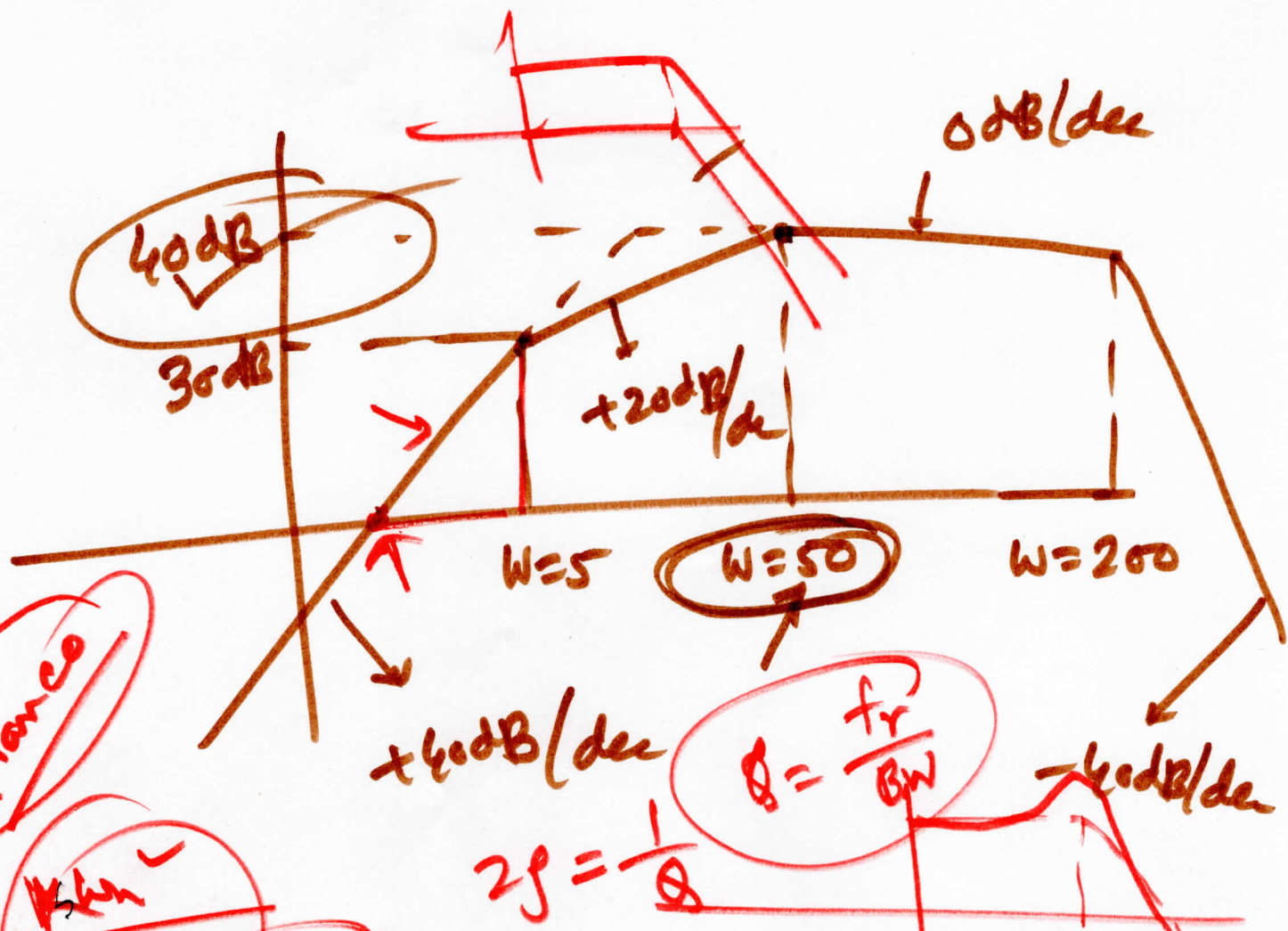
$$H(s) = \frac{10}{1 + s/2}$$



$$\frac{10 \times s}{(1 + s/2)(1 + s/10)}$$







franco

kin

Steady state

$-w^2 + 4\zeta w + 1$

$(2\zeta w + 1) \neq (w^2 - 1)$

$K \cdot 5^2$

$(1 + \frac{s}{5}) (1 + \frac{s}{50}) (1 + \frac{s}{200})^2$

$w=50$

$40 = 20 \log \left[\frac{K (50)^2}{(1 + \frac{50}{5})} \right]$

