E

$$Z_1 = \frac{R_1 + \frac{1}{C_1 s}}{R_1 + \frac{1}{C_1 s}} = \frac{R_1}{R_1 C_1 s + 1}$$

$$Z_2 = R_2 + \frac{1}{C_2 s}$$

$$G(s) = \frac{-Z_2}{Z_1} = -\frac{R_2 + \frac{1}{C_2 s}}{R_1 / (R_1 C_1 s + 1)}$$

$$= \frac{R_2 C_2 s + 1}{R_1 C_2 s / (R_1 C_1 s + 1)} = \frac{(R_2 C_2 s + 1)(R_1 C_1 s + 1)}{R_1 C_2 s}$$

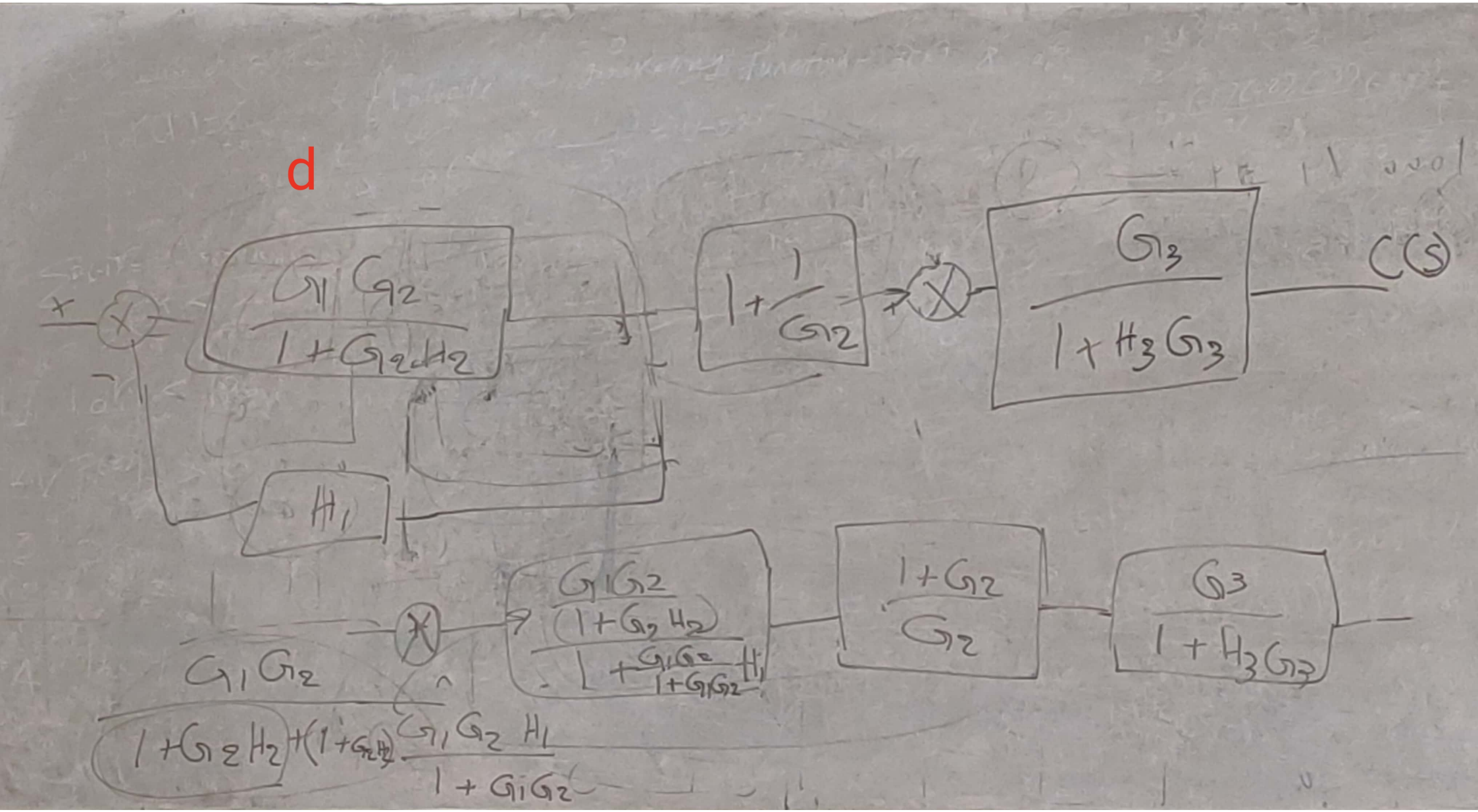
$$Z_1 = \frac{R_1 + \frac{1}{C_1 s}}{R_1 + \frac{1}{C_1 s}} = \frac{R_1}{R_1 C_1 s + 1}$$

$$Z_2 = R_2 + \frac{1}{C_2 s}$$

$$G(s) = \frac{-Z_2}{Z_1} = -\frac{R_2 + \frac{1}{C_2 s}}{R_1 / (R_1 C_1 s + 1)}$$

$$= \frac{R_2 C_2 s + 1}{R_1 C_2 s / (R_1 C_1 s + 1)} = \frac{(R_2 C_2 s + 1)(R_1 C_1 s + 1)}{R_1 C_2 s}$$

d


R(s)
$\frac{G_1 G_2}{1+G_2 H_2}$
$1+\frac{1}{G_2}$
$\frac{G_3}{1+H_3 G_3}$
C(s)
H_1
$\frac{G_1 G_2}{(1+G_2 H_2)\left[1+\frac{G_1 G_2}{1+G_1 G_2} H_1\right]}$
$\frac{1+G_2}{G_2}$
$\frac{G_3}{1+H_3 G_3}$
$\frac{G_1 G_2}{(1+G_2 H_2)+(1+G_2 H_2)\frac{G_1 G_2 H_1}{1+G_1 G_2}}$