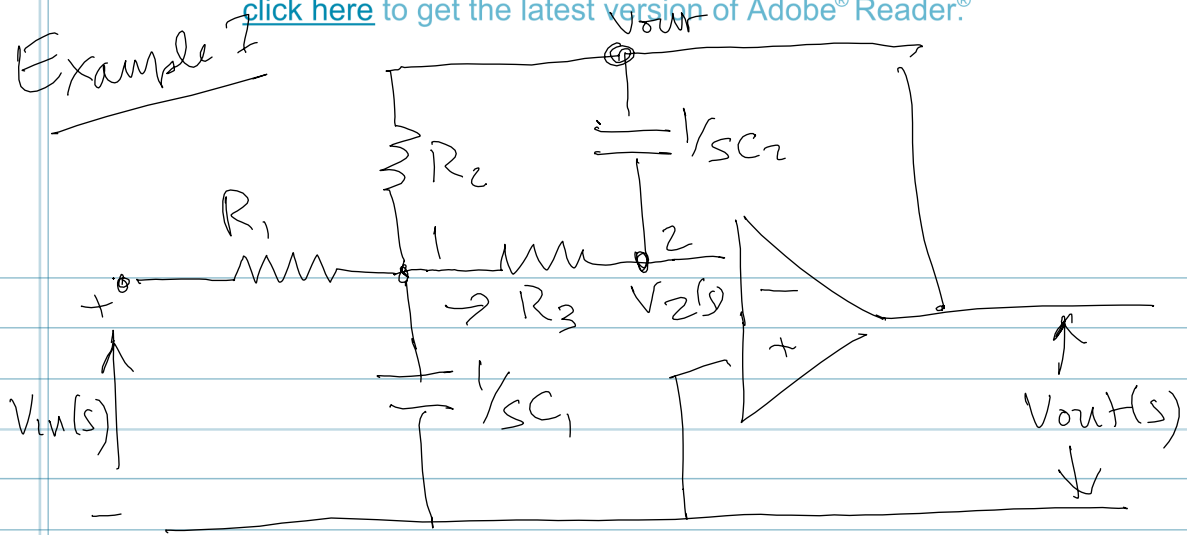Example 1

@ Node 1

$$\frac{V_1(s) - V_{in}}{R_1} + \frac{V_1}{1/sC_1} + \frac{V_1 - Vout}{R_2} + \frac{V_1 - V_2}{R_3} = 0$$

@ Node 2

$$\frac{V_2 - V_1}{R_3} = \frac{Vout(s)}{1/sC_2}$$

Because V_2 is virtual ground $V_2 = 0$

$$V_1(s) = \cancel{sR_3}(-sR_3 C_2) Vout(s)$$

$$\left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + sC_1\right)\left(-sR_3C_2 - \frac{1}{R_2}\right)Vout(s)$$

$$= \frac{1}{R_1}Vin(s)$$

$$G(s) = \frac{Vout(s)}{Vin(s)} = \frac{-1}{R_1\left[\left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + sC_1\right)(sR_3C_2) + 1/R_2\right]}$$