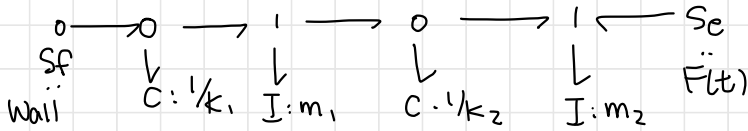
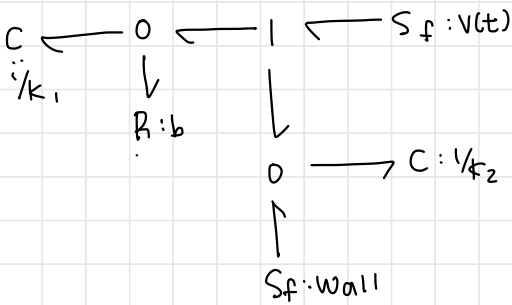


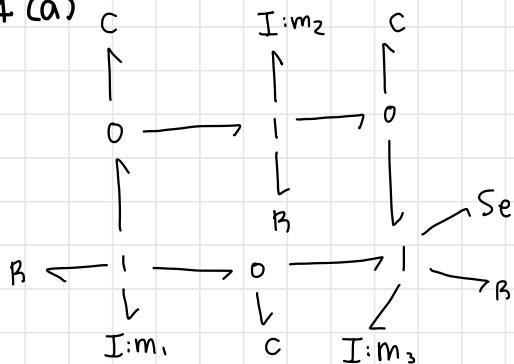
2(a)



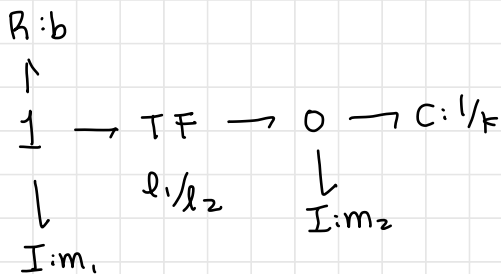
2(b)



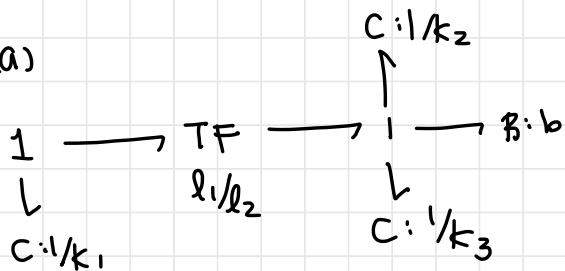
4 (a)



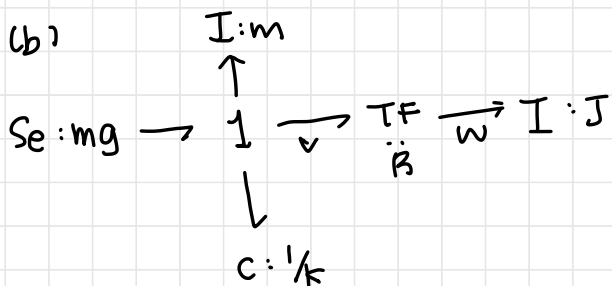
(b)

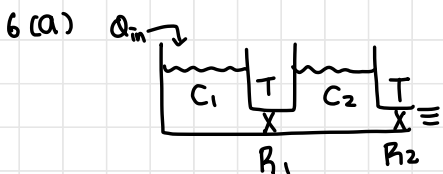


5(a)



(b)





1) Capacitance  $C = \frac{Q}{\Delta P}$  (cf)

$V_{(Volume)} = Ah$   
 $V = Cp = \rho gh \therefore \frac{P}{\dot{V}_{(Volume)}} \rightarrow C$   
 $C = \frac{A}{\rho g}$

2) Inertia  $P = \Phi_I$  (cf)

$A(P_1 - P_2) = \rho A l \frac{dQ}{dt}$   
 $P_1 - P_2 = \rho l \frac{dQ}{dt}$   
 $P_{(pressure\ momentum)} = \frac{\rho l}{A} Q$

3) Resistance  $e = \Phi_R$  (cf)

$P = P_1 - P_2$   
 $P = R \cdot Q$   
 $\frac{e = P}{f = Q} R = R$

$\therefore I = \frac{\rho l}{A}$  ans)

(b) ans)

