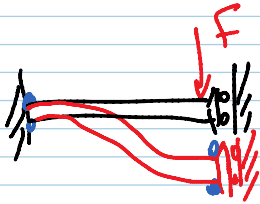


$$w(x) = \dots$$

$$\sigma_x = \dots F$$

$$\sigma_x = \dots F$$

$$\sigma_x = \dots \delta_x$$

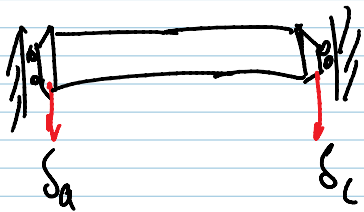


$$w(y) = \delta \left(3 \left(\frac{y}{L} \right)^2 - 2 \left(\frac{y}{L} \right)^3 \right)$$

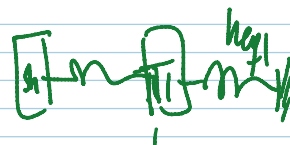
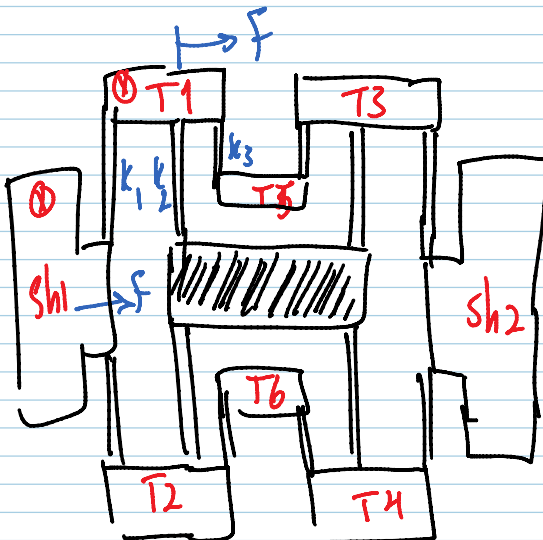
$$w(y) = F \dots$$

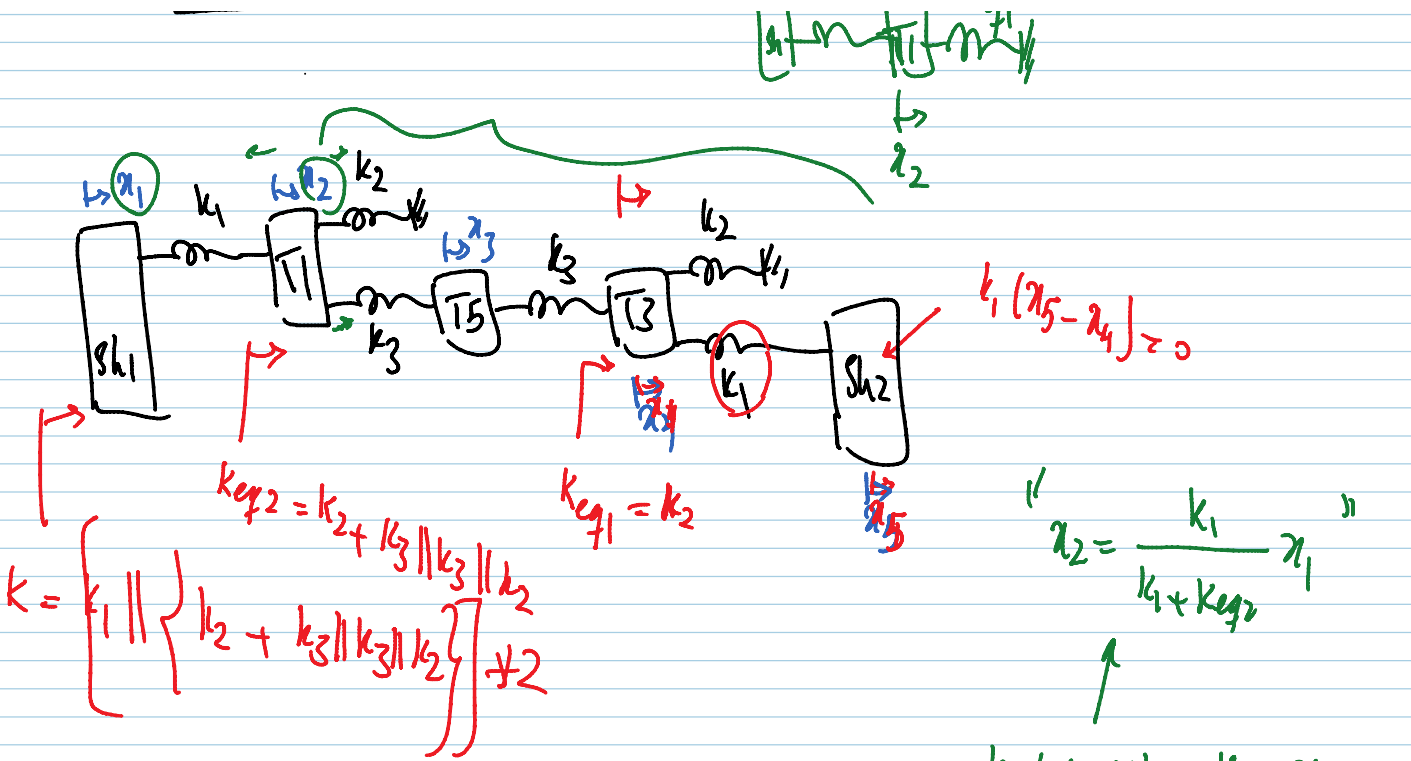
$$w(L) = F$$

$$\epsilon \propto \frac{1}{R} = \frac{d^2 w}{dy^2} = \dots \delta$$



$$\epsilon = (\delta_c - \delta_a)$$

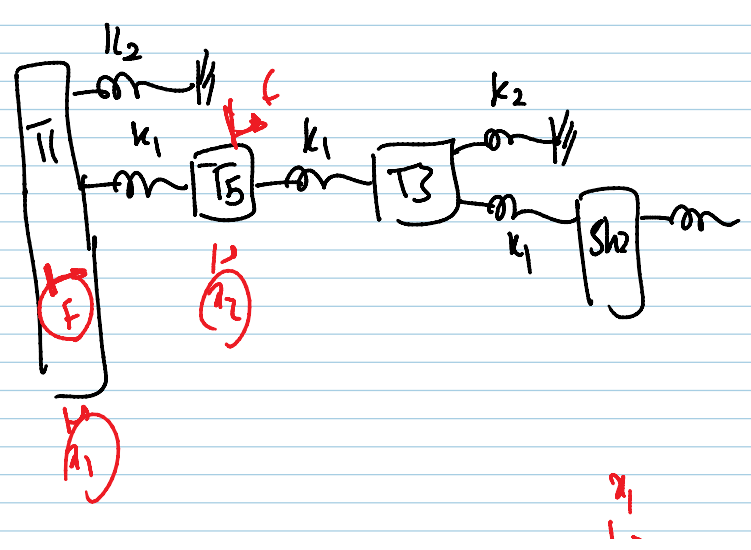


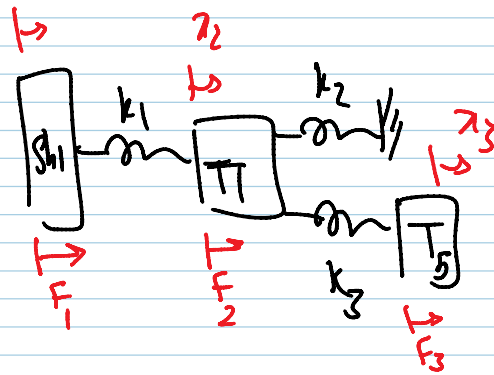
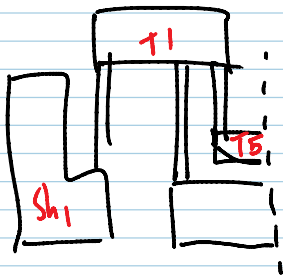


$$x_1 = \frac{F}{k}$$

x_2

$$\begin{aligned}
 k_1(x_1 - x_2) &= F \\
 k_1(x_2 - x_1) + k_2 x_2 + k_3(x_2 - x_3) &= 0 \\
 k_3(x_3 - x_2) + k_3(x_3 - x_4) &= 0 \\
 k_3(x_4 - x_3) + k_2 x_4 + k_1(x_4 - x_5) &= 0 \\
 k_1(x_5 - x_4) &= 0 \rightarrow x_5 = x_4
 \end{aligned}$$





$$F_1 \propto \frac{1}{g_0 - x_1}$$

$$F_2 \propto \frac{1}{g_0 - x_2}$$

$$F_3 \propto \frac{1}{g_0 - x_3}$$

$$\left\{ \begin{array}{l} k_1 (x_1 - x_2) = F_1 = \frac{A}{g_0 - x_1} \end{array} \right.$$

$$\left\{ \begin{array}{l} k_1 (x_2 - x_1) + k_2 x_2 + k_3 (x_2 - x_3) = \frac{B}{g_0 - x_2} \end{array} \right.$$

$$[X] = 0 \rightarrow [F] = \begin{bmatrix} i \\ i \end{bmatrix} \left\{ \begin{array}{l} k x_1 - k x_2 = 0 \end{array} \right. \rightarrow [X] = \begin{bmatrix} \cdot \\ \cdot \end{bmatrix} \rightarrow [F] = \begin{bmatrix} i \\ i \end{bmatrix}$$