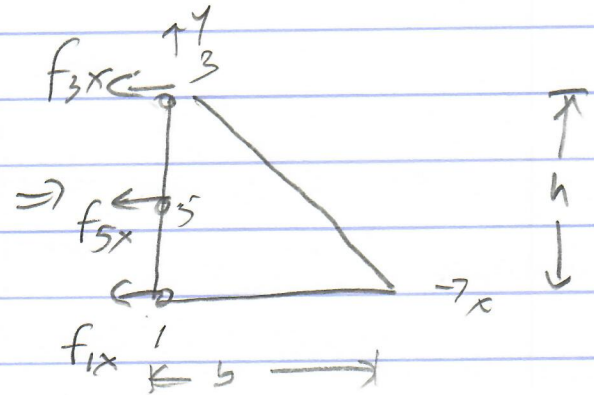
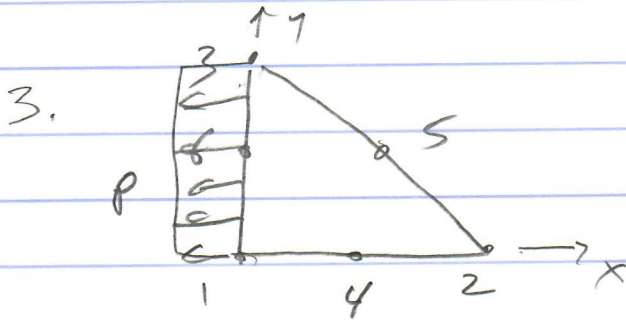


# HW6

1 & 2  $\Rightarrow$  see video



$$\{f\} = \int_S [N_s]^T \{T_s\} ds = t \int_0^L [N_s]^T \{T\} ds$$

$12 \times 1$        $12 \times 2$        $2 \times 1$

$$[N] = \begin{bmatrix} N_1 & 0 & N_2 & 0 & N_3 & 0 & N_4 & 0 & N_5 & 0 & N_6 & 0 \\ 0 & N_1 & 0 & N_2 & 0 & N_3 & 0 & N_4 & 0 & N_5 & 0 & N_6 \end{bmatrix}$$

along left face ( $x=0$ )

$$N_1 = 1 - 3y/h + 2y^2/h^2$$

$$N_2 = 0$$

$$N_3 = -y/h + 2y^2/h^2$$

$$N_4 = 0$$

$$N_5 = 4y/h - 4y^2/h^2$$

$$N_6 = 0$$

$$\{T\} = \begin{Bmatrix} p \\ 0 \end{Bmatrix}$$

