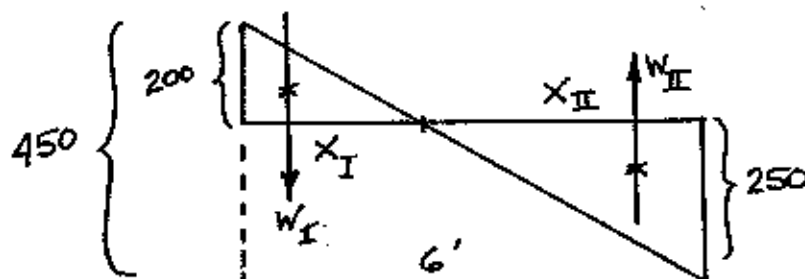
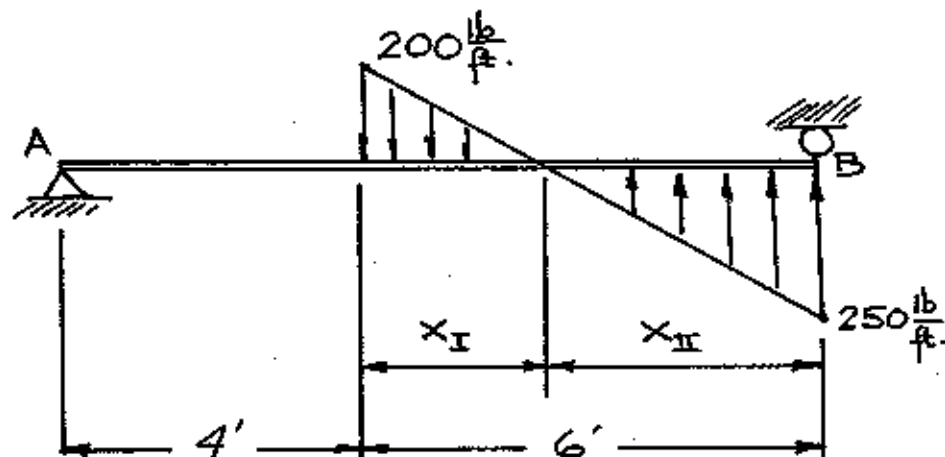


FIND CENTROID  
OF EACH  $\Delta$   
AREA FOR  
ONE CONC. FORCE  $\uparrow$   
+ ONE CONC. FORCE  $\downarrow$

NEED "BASE"  
OF EACH  $\Delta$ .

USE  
PROPORTIONS  
OF SIMILAR  
TRIANGLES.

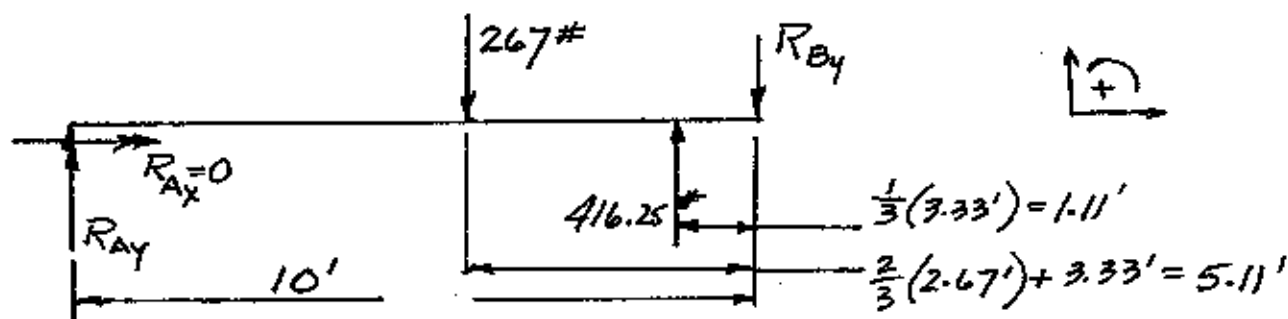
SLOPE  
 $Y \propto X$



Think  $SLOPE = \frac{Y}{X} = \frac{450}{6} = \frac{200}{X_I} = \frac{250}{X_{II}}$   
 $\therefore X_I = \frac{200(6)}{450} = 2.67 \text{ ft.} \quad \therefore X_{II} = 3.33 \text{ ft.}$

CONC. LOAD,  $W_I = \frac{1}{2}bh = \frac{1}{2}(2.67')(200 \frac{\text{lb}}{\text{ft}}) = 267 \text{ lb.} \downarrow$

CONC. LOAD,  $W_{II} = \frac{1}{2}bh = \frac{1}{2}(3.33')(250 \frac{\text{lb}}{\text{ft}}) = 416.25 \text{ lb.} \uparrow$



$\sum \hat{M}_B = 0 = -R_{Ay}(10') + (267\#)(5.11') - (416.25\#)(1.11')$

$R_{Ay} = 90.24 \text{ lb.} \uparrow$

$\sum F_y = 0 = R_{Ay} - 267 + 416.25 - R_{By}$

$90.24 - 267 + 416.25 = R_{By} = 239.49 \text{ lb} \downarrow$