



$$G = W1 + W2 + W3$$

MOMENTS AROUND POINT A

$$(1) G \cdot x = \frac{F \sin \alpha \times H}{\cos \alpha} = FH \cdot \tan \alpha$$

$$(2) \tan \alpha = \frac{R-x}{H}$$

$$FH \frac{(R-x)}{H} = Gx \quad Gx = F(R-x)$$