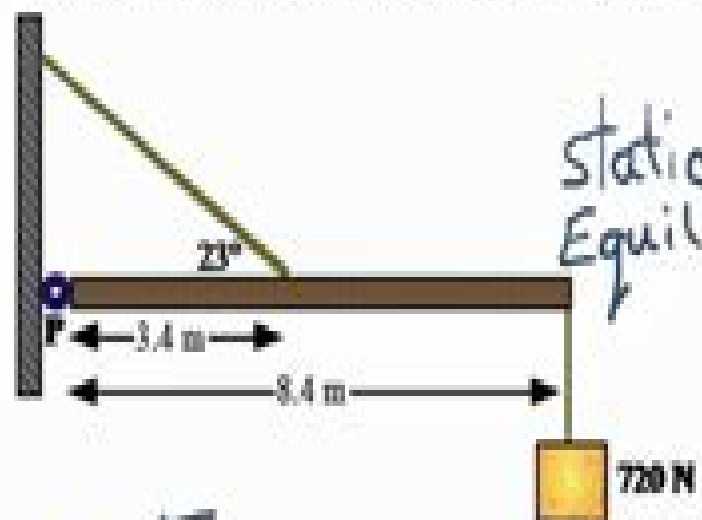


Example 10:

The diagram below shows a uniform beam hinged at P. The force of gravity on the beam is 425 N. Find the tension in the wire.



Static
Equil

$$F_{\text{net}} = 0 \quad \text{OR} \quad \Sigma \vec{F} = 0$$

$$\tau_{\text{net}} = 0 \quad \text{OR} \quad \Sigma \vec{\tau} = 0$$

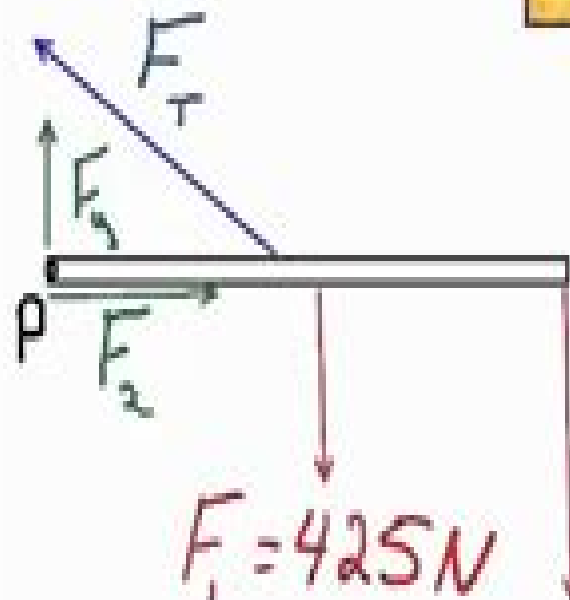
$$\tau = F \times d$$

$$\Sigma \vec{\tau} = 0$$

$$\tau_1 + \tau_2 + -\tau_3 = 0$$

$$F_1 = 425 \text{ N}$$

$$F_2 = 720 \text{ N}$$



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