













Write Net Force Equations

Pick a place for the hinge
Determine Distances

Write Net Torque Equations

$$\Sigma F_y : F_1 + F_2 - 980N - 245N = 0$$

$$1041.25 + F_2 - 980N - 245N = 0$$

$$F_2 = 183.75 N$$

$$\Sigma \tau : -F_1(4m) + 980N(3m) + 245N(5m) = 0$$

$$F_{_{I}} = 1041.25\,N$$