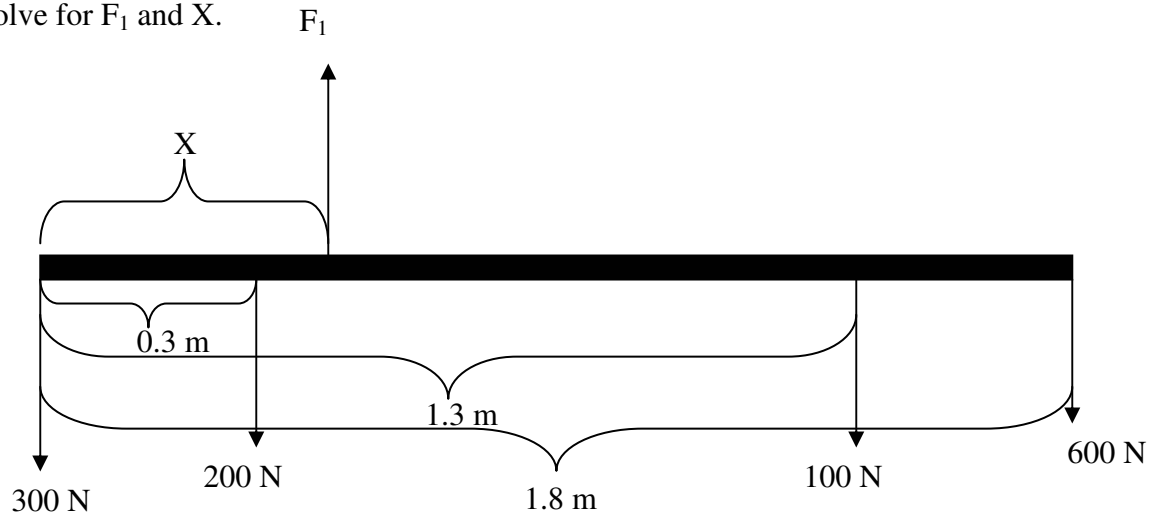


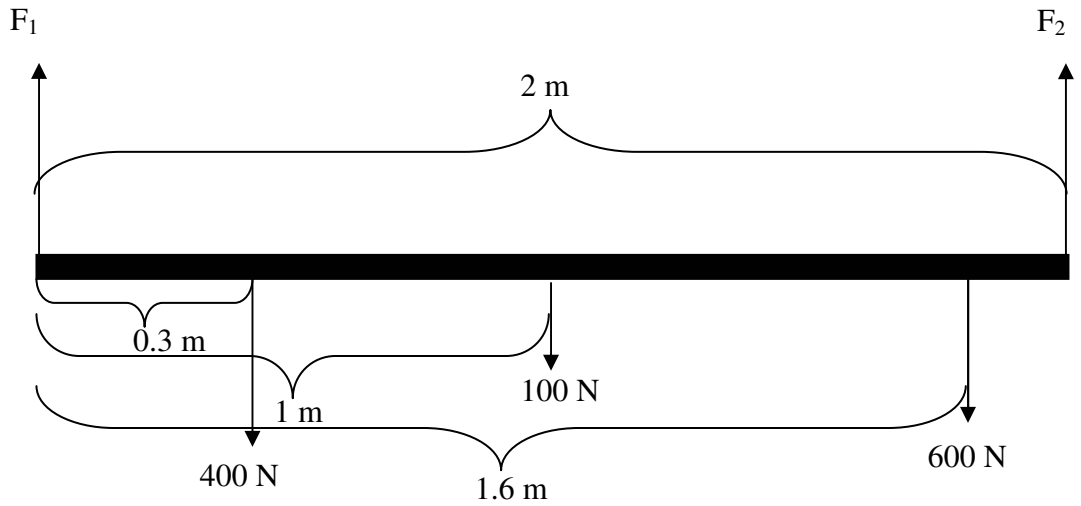
# First and Second Conditions for Equilibrium

Assume each of the following systems is in equilibrium.

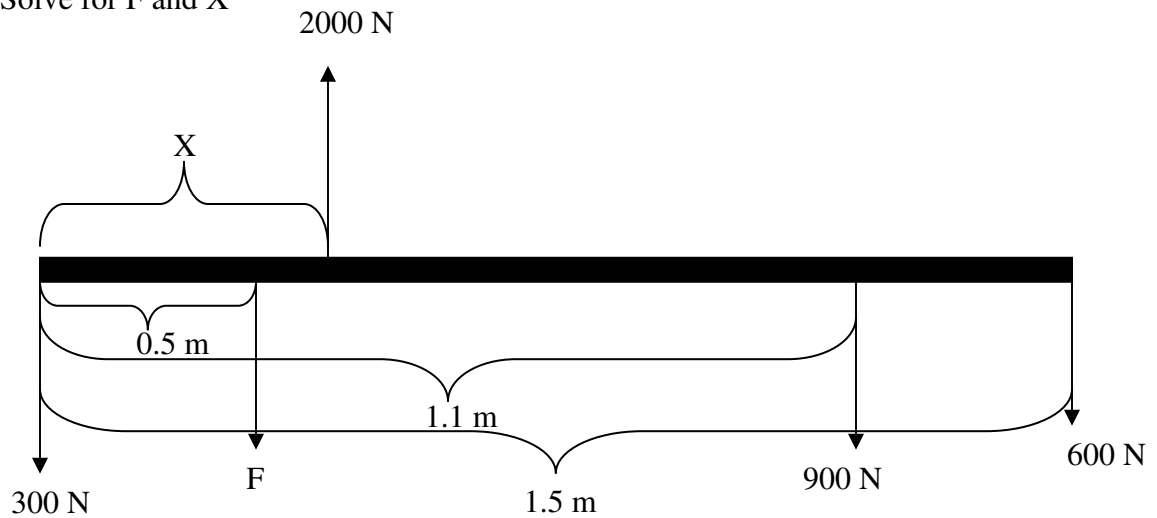
1. Solve for  $F_1$  and  $X$ .



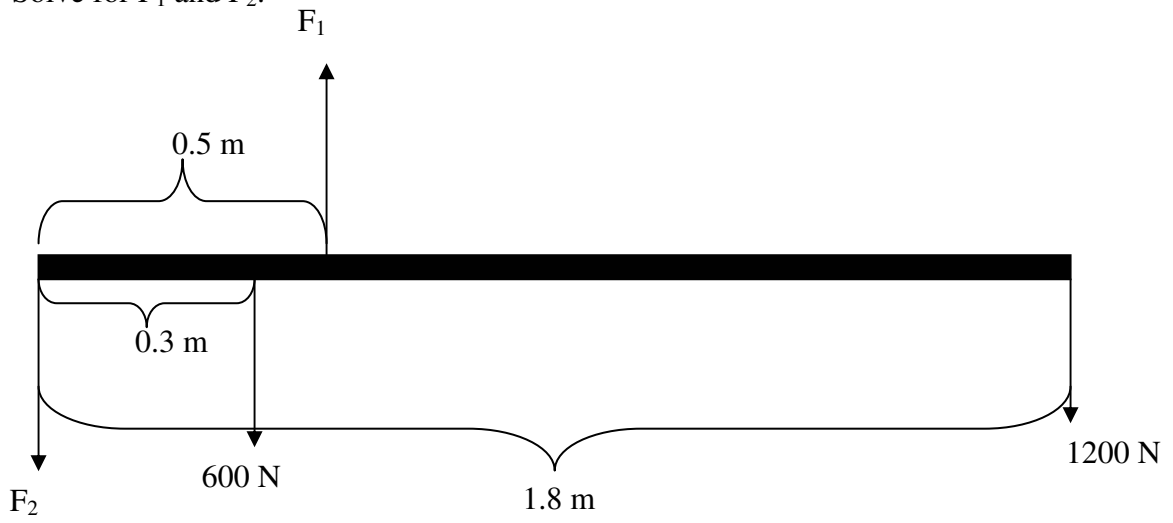
2. Solve for  $F_1$  and  $F_2$ .



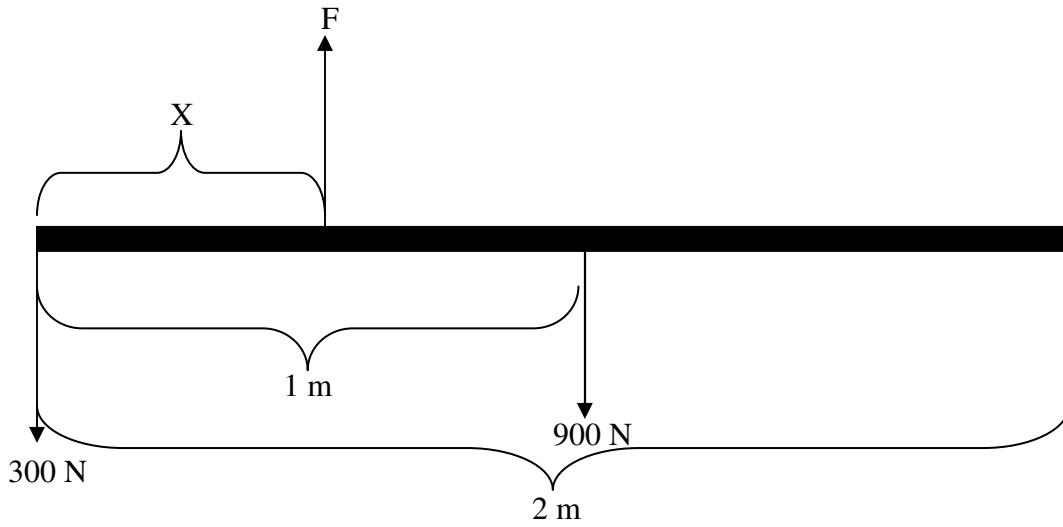
3. Solve for  $F$  and  $X$



4. Solve for  $F_1$  and  $F_2$ .



5. Solve for  $F$  and  $X$



6. Solve for  $F_1$  and  $F_2$

