

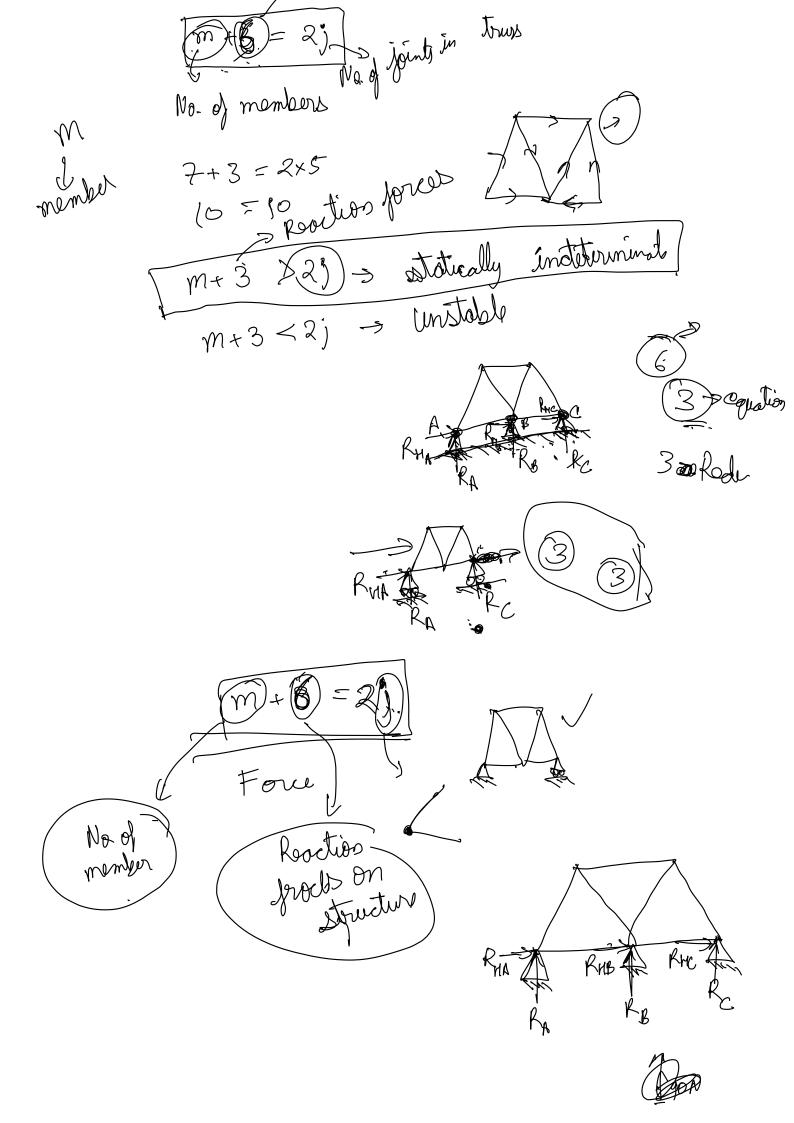
Certat is Structure? Combination of different links which support Or transfer the force, safely withstand the la applied force Truss > A gramework composed of members-goined at their and to form a rigid structure, Assumption :-1 All members of the Trus are assistly loaded - 2 weight of the member is small compare to the force it support. → 3) No effect of bending on member - 9 External forces are applied at pin (joints) connection Stor Structury is statically determinate:

Static capillibrium

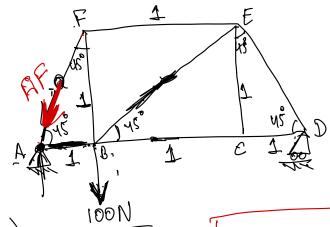
For Sifi = 0 Sim = 0

2 Reaction forces

montes of mander







## External forces

$$m + 3 = 2'$$
  
 $9 + 3 = 2 \times 6$   
 $12 = 12$ 

free body dia

Reaction forces

$$2f_{\chi} = 0 \quad \text{s.fy} = 0 \quad \text{s.m} = 0$$

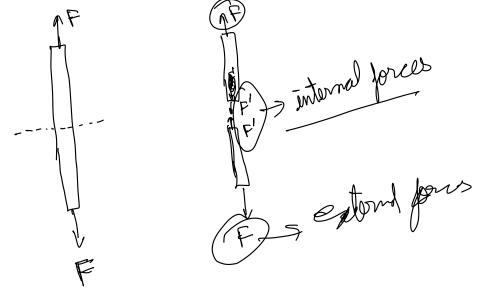
$$2 \cdot F_y = 0 \Rightarrow R_A + R_D - 100 = 0$$

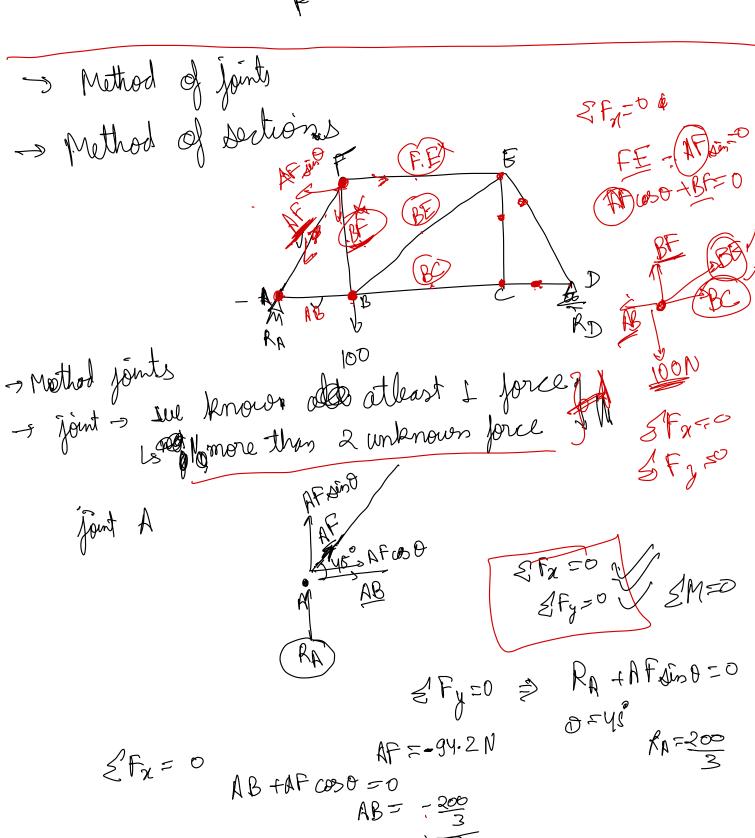
$$\begin{pmatrix} h \end{pmatrix} \begin{pmatrix} 3 \end{pmatrix}$$

$$R_{A} + \frac{100}{3} - 100 = 0$$

$$R_{A} - \frac{200}{3} = 0$$

$$K_{A} = \frac{300}{3}$$





Method of section: i(j) TRD. 00) Wat more than 3 unknown forces FOEF SMB=D » BE = RA EF = 0 = EF = + RP = +200 = EF = + RP = +3 2 Fx 50 EF+BC+BE(000=0) BE SIND+RA -100=0 for