C+ 2M = 0 196 N. 500 mm + 210 Nm - F3, y · 1000 mm = 0 /m = 1000 mm F3, y · 1/2 = 210 N/2 + 98 N/2 F3,4 = 308 N GEOMETRY OF  $F_3$   $F_{3,y} = 308 \text{ N}$   $F_{3,y} = 308 \text{ N}$   $F_{3,y} = 60^{\circ} = F_3$ cos 60° = F3, y/F,  $F_3 = \frac{F_{3,7}}{\cos 60^\circ} = \frac{308 \,\text{N}}{\cos 60^\circ} = \frac{616 \,\text{N}}{}$  $F_{3,x}^2 + F_{3,y}^2 = F_3^2$  $F_{3,X}^{2} + (308 N)^{2} = (616 N)^{2}$  $F_{3,x}^2 = 284592 \text{ N}^2$ F3 x = 533.5 N  $\stackrel{+}{\rightarrow}$   $\Sigma F_{\chi} = 0$  $-F_{1}-533.5 H=0$ F, = -533,5 H or 533.5 N -> +1 2 Fy =0 F2 - 196 N + 308 N = 0 F2 = - 1/2NO2 112N &

SOLVED FBD

533.5N

533.5N

196N 210N·m

1000mm

1000mm

1000mm

1000mm

1000mm

1000mm

Even if NOT EXACTY Zero, chech To error. If < 1%