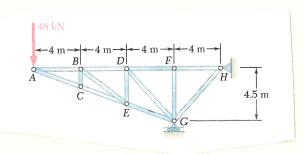
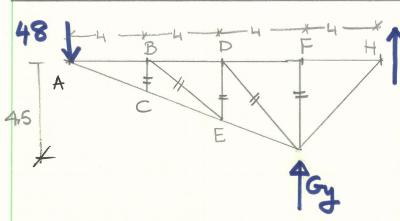
$$\frac{2}{3}a + \frac{2}{3}a + \frac{2}{3}a$$

$$\leftarrow \frac{5}{2}a \rightarrow \times \times = \text{by symmetry}$$

Area	9	A* y
(1) $5a(a) = 5a^2$	3 a	15 a3
$\frac{1}{2}aa = \frac{a^2}{2}$	2 a	<u>a³</u> <u>3</u>
3 aa = a²	a/2	$a^3/2$
$\textcircled{4} \frac{1}{2} a a = \frac{a^2}{2}$	2 a	3
a ² [5+4+½+½]		a3 [15 + 1 + 1 + 1]
Mg = ZAinji = ZAinji =	The second second second second second	$3+2+3+2$ $= 52a = 1.24a$ $\frac{5}{2}a \left[46 = 1.24a \right]$



- a) Det tero-force members
- b) Det Force FBD, FGE N/ method of sections
- C) Det the rest not method of firsts



a) zero force menubers

$$tand = \frac{4.5}{12} \rightarrow d = 20.55$$

cood = 0.9363 2 sind = 0.3541

we just have Ha left:

SNode H)

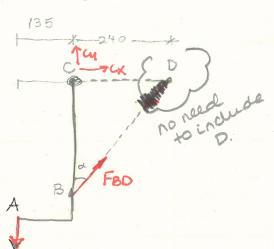
$$tam\beta = \frac{4.5}{4} \rightarrow \beta = 48.36$$
 $tam\beta = 0.66$
 $tam\beta = 0.66$
 $tam\beta = 0.66$

$$F_{HQ} = -\frac{128}{0.66} = -\frac{128}{0.66} = -\frac{192.7}{0.66}$$

BAR	FORGE	Torc	
AB	128	0	
BD	.128	0	
DF	128	0	
FH	128	1	
AC	136,7	0	
CE	136.7	0	
EG	136.7	0	
GH	1927	0	
BC	O	0	
BE	0	0	
DE	0	0	
DG	0	0	
FG	0	9	
		- mention de recibilità de la companya del companya del companya de la companya d	



400 N



FBD =?
React@c (cx; Cy)

$$tand = \frac{240}{450} = 0.53$$
 $d = 28^{\circ}$

450

$$3D = \frac{400 \times 135}{450 \text{ sin } 28} = -255 \text{ N} \qquad FBD = 255N(C)$$

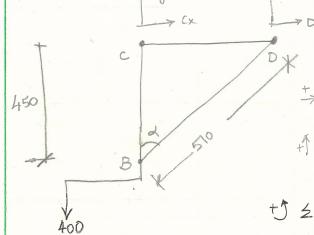
$$450 \text{ sin } 28$$

$$\text{the reactions } D$$

$$\text{compression}$$

$$F_{BD}$$
 cosol + Gy - 400 = 0
 $G_{Y} = 400 - F_{BD}$ cosol = +400 - (-255) cos 28 = 625N \uparrow

No need for this, this is just to show me get the Same results - w/ more work!



2

$$Dy = -\frac{400 * 135}{240} = -225 \text{ N}$$

$$Dy = 225 \text{ N}$$

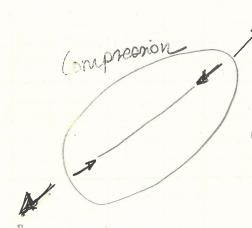


$$\sin \alpha = \frac{240}{510}$$

$$\cos \alpha = \frac{450}{510}$$

in a
$$Dx = (-255) \frac{240}{510} = -120 \text{ N}$$

To let's see how the bar looks (Torc)



Which is the same as we write in pape O.

But the problem was asking for Ge, Cy

form () CX = -DX = 120 N

$$f(x) = 120N - 7$$
 $f(x) = 625 N 1$
 $f(x) = 255 N(C)$

