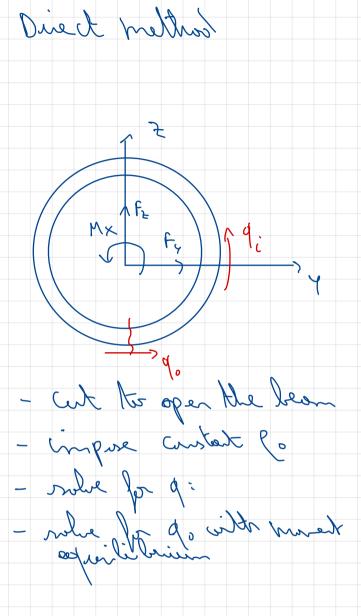
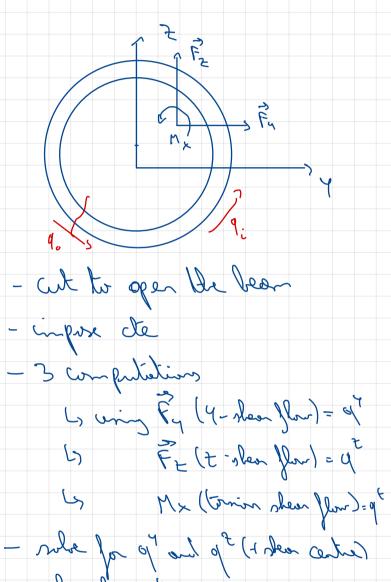


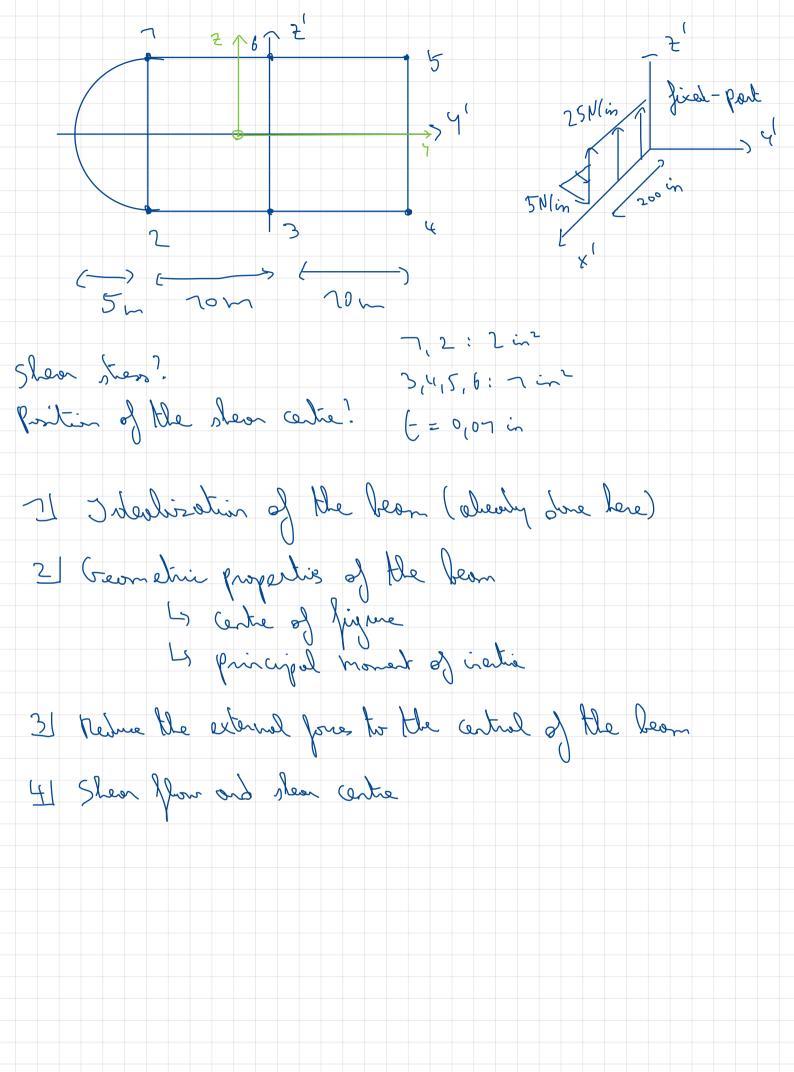
lles elpris Cartler Leid

Shear certre method



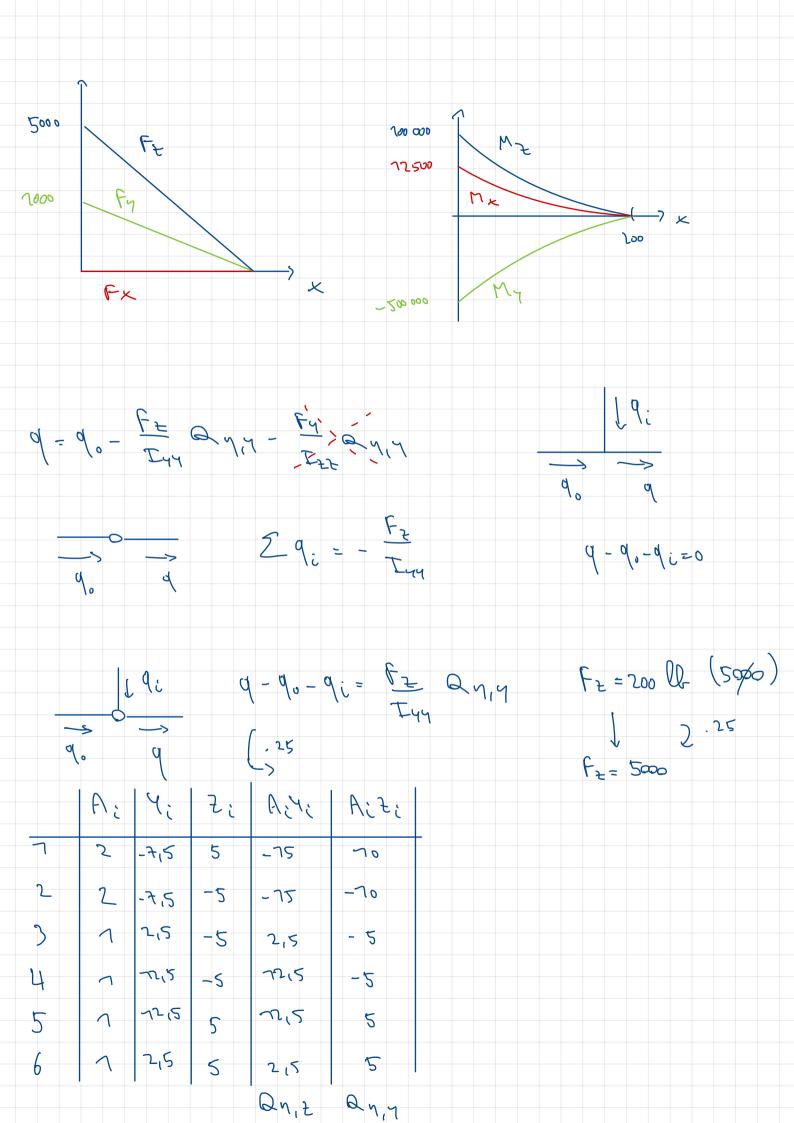


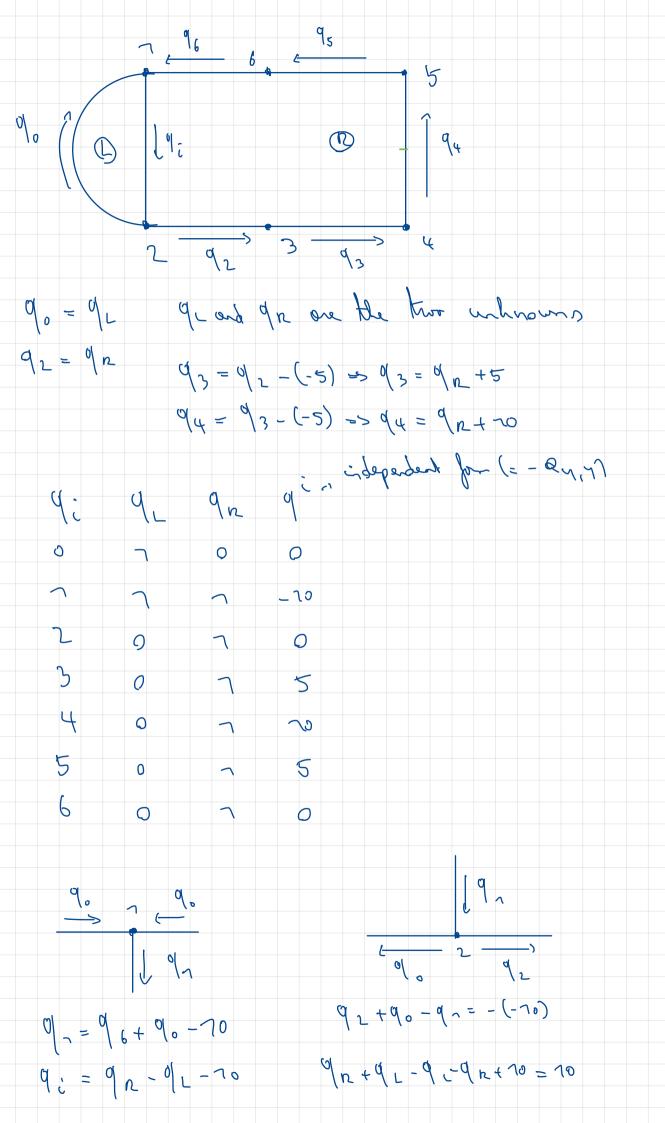
- robe for of



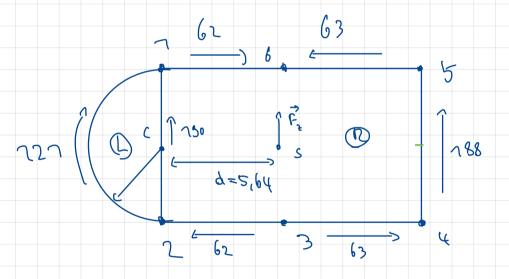
	F) ¿	٧;	7;	Azy;	Aiti	Acq'	A iti	Aid; f;
7	2	-70	5	- lo	70	200	50	
2	2	-70	-5	-20	-70	200	50	
3	1	0	-5	0	-5	0	25	
4	7	0	-5	70	-2	100	25	
5	1	70	5	70	5	100	25	
6	1	70	5	0	5	0	25	
2	8			-20	0	600	200	0
Ye	20	= -2,5 W	_	I 4'4' =	700 \ 2	Lyu	= 700 -	2 / = 200 in "
				I _{2'2'} =				1 = 550 in 4
	8 = 8	- 0 m		. ((7 6	£ 7 (000	16 H = 220 CM
							Sto	ine
0.	- 0	00-1-		\ ~				
` '		اله ا نه ام		M×				
Py =	: 5	الدائد		My				
Py =	: 5							
Py =	: 5	لگدا ئے گدا ئے		My		7		
Py =	: 5	الدائد		My		7		
Py =	: 5	لگدا ئے گدا ئے		W z		P 2		
Py =	: 5	Orling Pt		m +	= 0	65		
Py =	: 5	Orling Pt		W z	= 0	Pa Pa		<u> </u>
Py =	: 5	Orling Pt		m +	= 0	P _t		
Py =	: 5	Orling Pt		m +	= 0	Pr Pr Mx Pr	Pz. 14F	

```
\frac{df_x}{dx} = -\varphi_x = 0 \implies f_x = C_n
                0 \downarrow x = 200 \text{ in } F_x = 0 \Rightarrow C_n = 0
                  Fx = 0
\frac{\partial F_{y}}{\partial x} = -P_{y} = -5 \implies F_{y} = -5x + C_{2} \quad \text{wh} \quad x = 200 \text{ in } (45) F_{y} = 0 = -7000 + C_{2}
F_{y} = 7000 - 5x
\Rightarrow C_{2} = 7000
dfz = - Pz = -25 => fz = 5000 - 25x Ur
\frac{\partial M_{x}}{\partial x} = -M_{x} = -62,5
  M_{x} = -62,5_{x} + C_{3}
       ot x = 200 in => Mx = 0 = -72 500 + C3
       Mx = -62,5 x+12500
 dMy = - my + Fz = 5000 - 25 x
            My = -72,5x2+50=0x+Cy
            et x=200 => My=0 => C4=500 200-100
           My = -72 (5 x2+ 5000x - 500 000
dMz = - mz - Fy = 5x - 7000
         M2=2,5x2-1000x+C5
               at x = 200 in N == 0 => C5 = 200 000 - 700 000
         MZ= 2,5 x2 - 2000 x + 2000 0000
```





j p	4	9 n	0	9	9
٥		0	0	4,853	727
\sim	γ		_ \0	-7,62	-790
2	9	7	0	-2,475	-62
3	0	7	5	5 1252	63
4	Q	7	\sim	7,252	788
5	0	~	5	2,525	63
6	0	7	0	-21475	-61



$$M_c(F_z) = dF_z$$

$$M_{c}(q) = -(n2n.\pi R).R - (62.2R)R + (63.2R).R$$

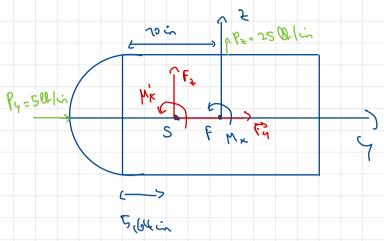
+ $(788.2R).4R + (63.2R).R - (62.2R).R$

Mc(9)= -121.7 R2-248R2 + 252R2 + 1504 R2

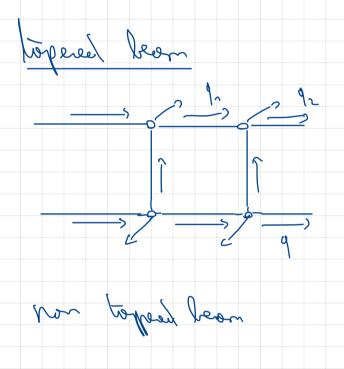
$$d = \frac{1508 \, \text{n}^2 - 121 \pi \, \text{n}^2}{\text{F}_2} = \frac{1508.25 - 127. \pi .25}{5000} = \frac{5,64 \, \text{in (from c)}}{\text{1}}$$

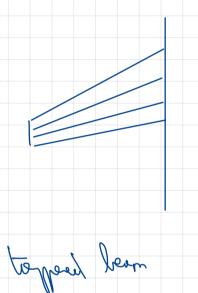
Horizontal: 62.212 - 63.212 - 62.212 + 63.212 =0 Vertical: 730.20 + 188.20.22 = 7500 + 7880 + 7270 = 4550 25000 Fy= 7000 W 0 = 0 = 0 50. 212. 2= 2000 ll 97=92=0 95= 970=9 9,-9,0-92 = - Fy Qyz Airi -75 215 $98 = 93 = -2000 \cdot (-15) = 27,27 \text{ Urling}$ 12,5 2,5 94 = 95 - Fy QNZ 9t = d4 = 5t, 5t - 2000 5/2 = 55, 75 lb in

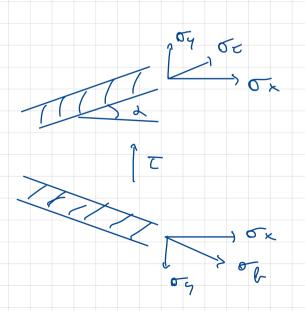
Mx = 12500 Win



 $M_{\times} = (4(N_0 - 5, 64))$ $M_{\times} = -4, 36.25 = -108$ $M_{\times} = -108 \times + C$ $M_{\times} = -108 \times + C$ $M_{\times} = 200 \text{ in, } M_{\times} = 0 \Rightarrow C = 21600$ $M_{\times} = 21600 \text{ lh. in ot rest } (x = 0)$







Toperal lean exercise (slide) Fy = - 1000 U har Py = - 7000 Wx = 0

Fy + Py = 0 => Fy = - Py Fy = C= + 2000ll

$$\frac{dM_{y}}{dx} = -M_{y} - F_{y} = 2000 \times = 0, M_{y} = 0$$
 $M_{y} = -1000 \times + C_{x} \Rightarrow C_{x} = 0$
 $M_{y} = -1000 \times + C_{x} \Rightarrow C_{x} = 0$

		1		
	Ai	Yi	A: Yi	AiYi
7	1	3	3	9
2	0,5		015	0,5
3	9,5		0,5	0,5
4	1	3	3	3
	3			75

tip

	Ai	Yi	Airi	Airi
	7	9	3	37
2	0,5	3	7,5	4,5
3	0,5	3	7,5	4,5
4	\sim	3	5	81
	3			777

Root

$$q_2 = q_2 - \frac{1000}{200} \cdot 0.5 = -184.8 \text{ M/m}$$

Root o; A; 0; Nx; 2; N; Ny; My = - 70 000 ll in Fy = 7000 W 7 3684 3684 4.9 3697 31518 2 1224 674 7,6 674,2 77,7 0 = - Mt y 3 -7228 -674 -7,6 -674,2 77,7 122 4 - 3684 - 3684 -4,5 -3657 375,B 0 = + 70000 - 9 665,8 Vi= Nxi Good: - N = O; A; =) 5xx 6A Ny: = soi(di) Ni · 2 = By(-or (3-3) $qs = B^{d} tou \left(\frac{fo}{3-v}\right)$ Fy = Tw + INy; tw= Fy - Z Ny; Tu = 2000 - 665, 8 = 334,20 $93 = 97 = -\frac{334,2}{177}, 9 = -17,58$ Phin 92 = 97 - 334,2 7,5 = -26,57 Win Root

