Solutions \$ 1500 N = 1x for body: EMBX = 0 = (FEZ + FOZ)(1.00m) + 1,50AN(1.50m) ZNB2=0=1.50hN(0.5m)-Fcy(1.00m) +Fcy=750N ZMBy=0=400N(1.50m)+FEZ(1.00m) -> FEZE-600N EFZ=0=FEZ+FDZ+FBZ >FBZ= 2250N SFx=0=FBX +400N -> FBX=-400N EFy=0= Fay +FBy-1.50 M > FBy=750N at D' ZFz=0= DA (1.50) + FDZ > DA= 1.10/8.50 NN atB: ZFy=0=FBy+BD > BD=-750N (2.06an) EFz=0=FBZ+AB(1.50) -> [AB=71.50/2.5 NN EFX=0=BC+FBX at E: EFz=0=AE(1.50)+FEZ > AE= 400,3,3 N EFy=0=EC+(1,00) AE > EC=-400 N EFX=0=ED+0.50 AE > [ED=-200 N]

Depart at C:
$$\Sigma F_Z = 0 = AC \left(\frac{1.50}{\sqrt{20.50}}\right) \Rightarrow AC = 0$$
 force)

$$\Sigma F_X = 0 = BC + \left(\frac{1.50}{\sqrt{20.50}}\right) \Rightarrow AC = 0$$
 force)

$$\Sigma F_Z = 0 = \frac{1.5}{\sqrt{20.5}} AD + \frac{0.5}{\sqrt{20.5}} AE - \frac{1.5}{\sqrt{20.5}} AB - \frac{1}{\sqrt{20.5}} AE$$

$$= -1650N - 600N + 2250N$$

$$= 0$$

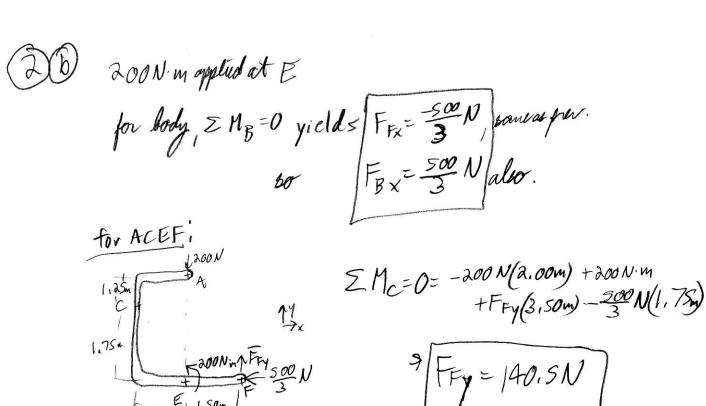
$$A = \frac{1.55}{\sqrt{20.5}} AB - \frac{1.55}{\sqrt{20.5}} AB - \frac{1.55}{\sqrt{20.5}} AB - \frac{1.55}{\sqrt{20.5}} AB$$

$$= 0$$

$$A = \frac{1.55}{\sqrt{20.5}} AB - \frac{1.55}{\sqrt{20.$$

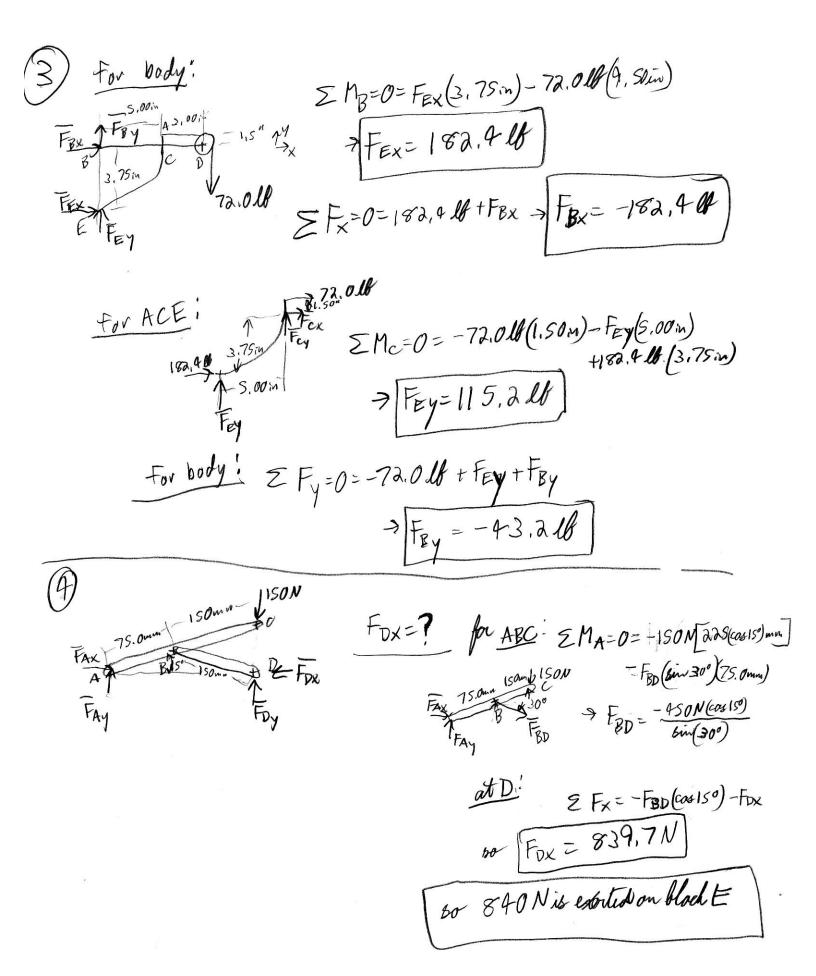
For CDB'

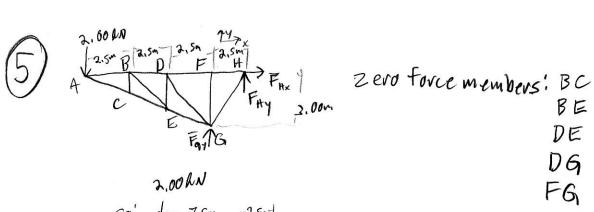
For CDB' $E_{x} = \frac{1.75 \text{ N}}{3}$ $E_{x} = \frac{500 \text{ N}}{3} \text{ N}$ $E_{x} = \frac{500 \text{ N}}{3} \text{ N}$



TFy = 140,5N

Wody: 2 Fy=0=140, SN-200N+FBY
> FBy=59,5N



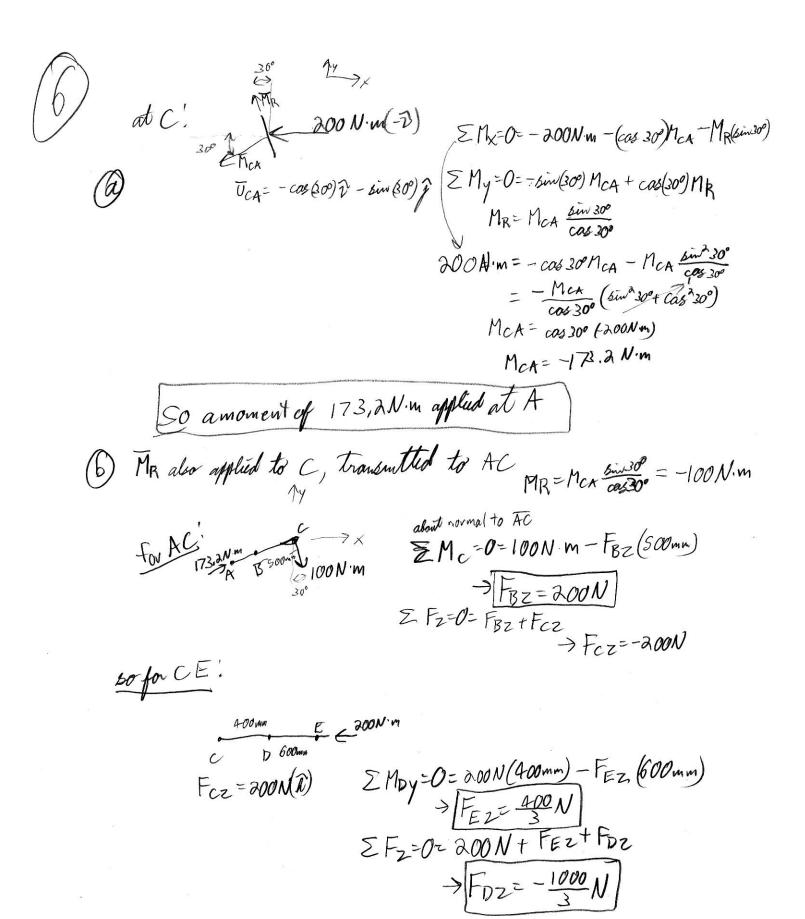


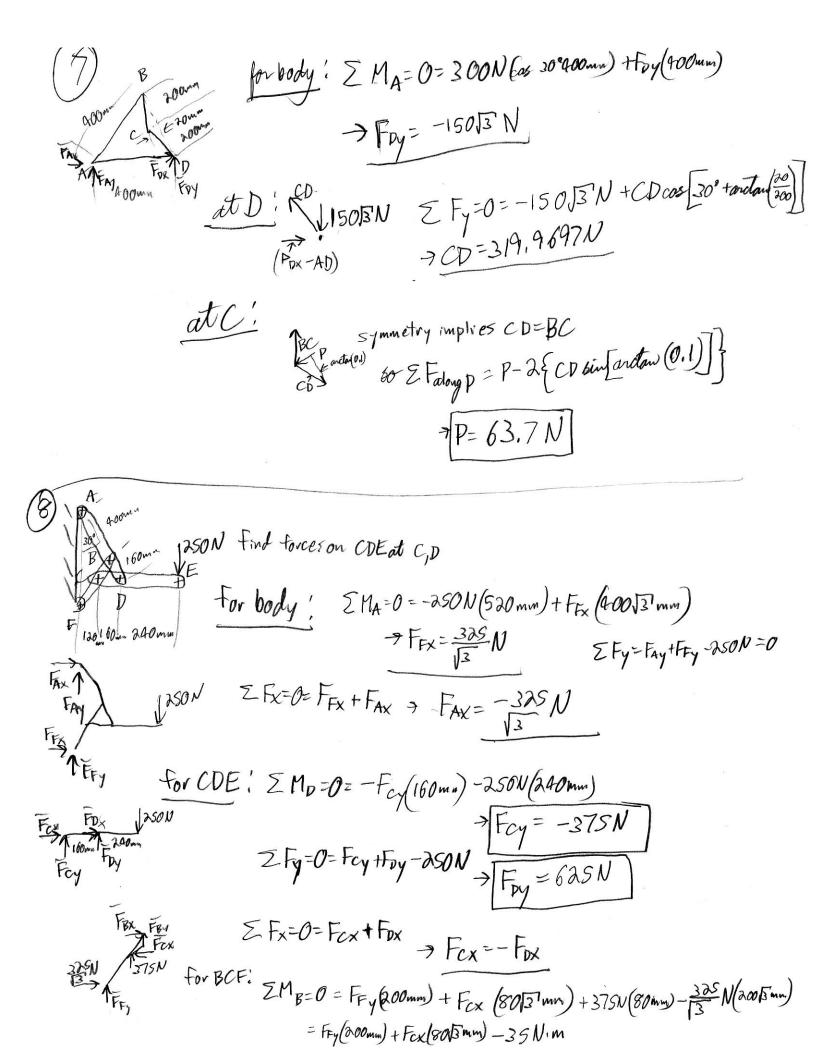
FG

$$\frac{F_{6y}=8.00 lN}{E F_{y}=0=-2.00 lN+8.00 lN+F_{tty}}$$

$$\frac{F_{hy}=-6.00 lN}{E F_{x}=0=F_{ttx}}$$

ZFx=0= FHy
$$\sqrt{\frac{3.00}{15.25}}$$
HG \rightarrow HG= $-2\sqrt{15.25}$ MV (-7.81 kN)
ZFx=0= -FH $\sqrt{\frac{2.5}{15.25}}$ HG
 \rightarrow FH=5.00 LN





(D(covit.) For ABD: ZMB=0=-FAy (200mm) +(325 N)(20013 mm) -625N(80mm) + Fox (8013 mm) =-FAy(200mm) + FDX (8013mm) + 15 N·m set ZMB=0 for ABD = to ZMB=0 for BCF and substitute Fex=-Fox from EF=0 from BDE and FAy= 250N-FFy from EFy=0 (body) Fry (200mm) + Fcx (8015mm) -35 N·m = - Fay (200 mm) + Fox (805mm) + ISN·m FEY(200mm) + FCX (8013mm) - SON'M = (FEY-250N)(200mm) - FCX (8015mm) $F_{CX}(160\sqrt{3} \text{ mm}) = 100 \text{ N·m} \Rightarrow F_{CX} = \frac{625}{\sqrt{3}} N(=360.844\text{ m})$ $F_{DX} = -F_{CX} = -\frac{625}{\sqrt{3}} N = F_{DX}$ $\frac{1}{\sqrt{3}} = \frac{625}{\sqrt{3}} N = F_{DX}$

DX = -361N
- 625N
by = 625N