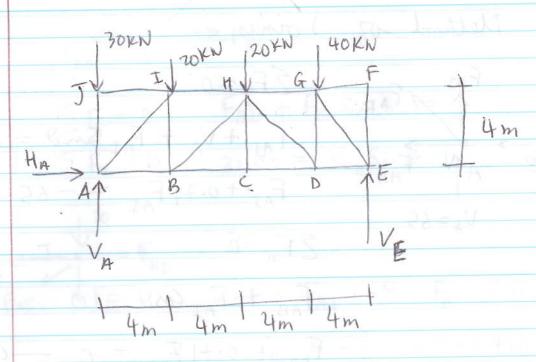
6-33



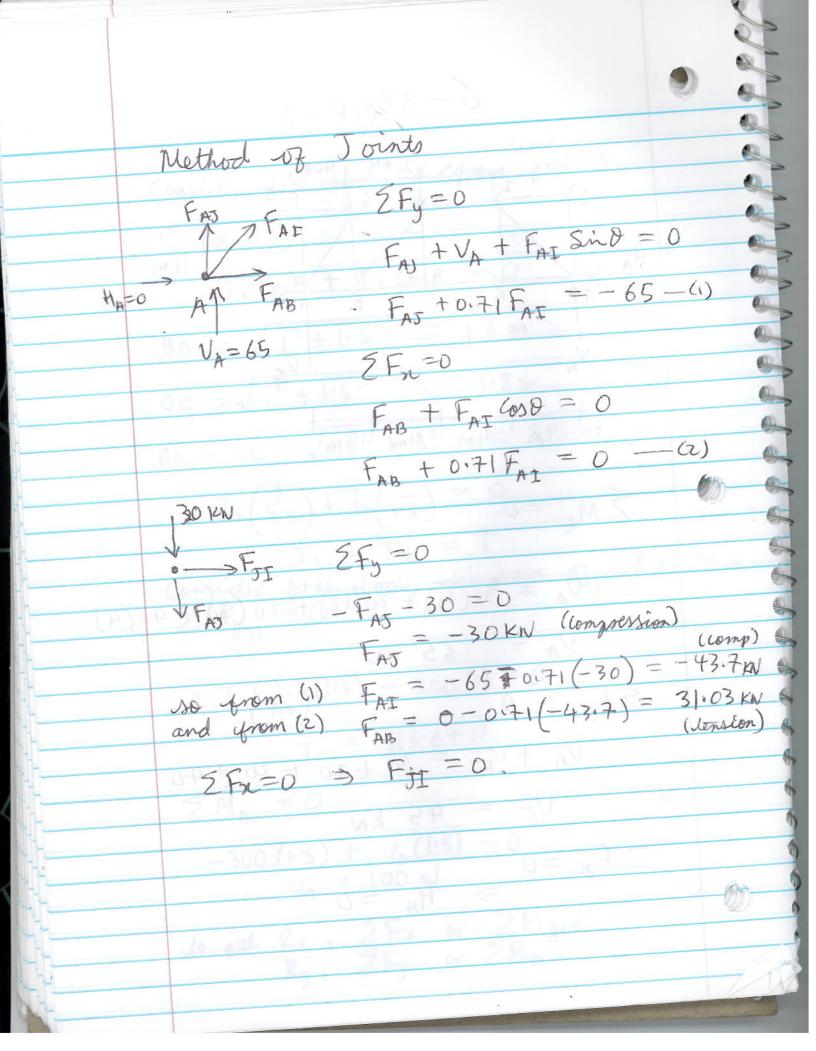
$$16V_A = 30(16) + 20(12) + 20(8) + 40(4)$$

 $V_A = 65 \text{ KN}$

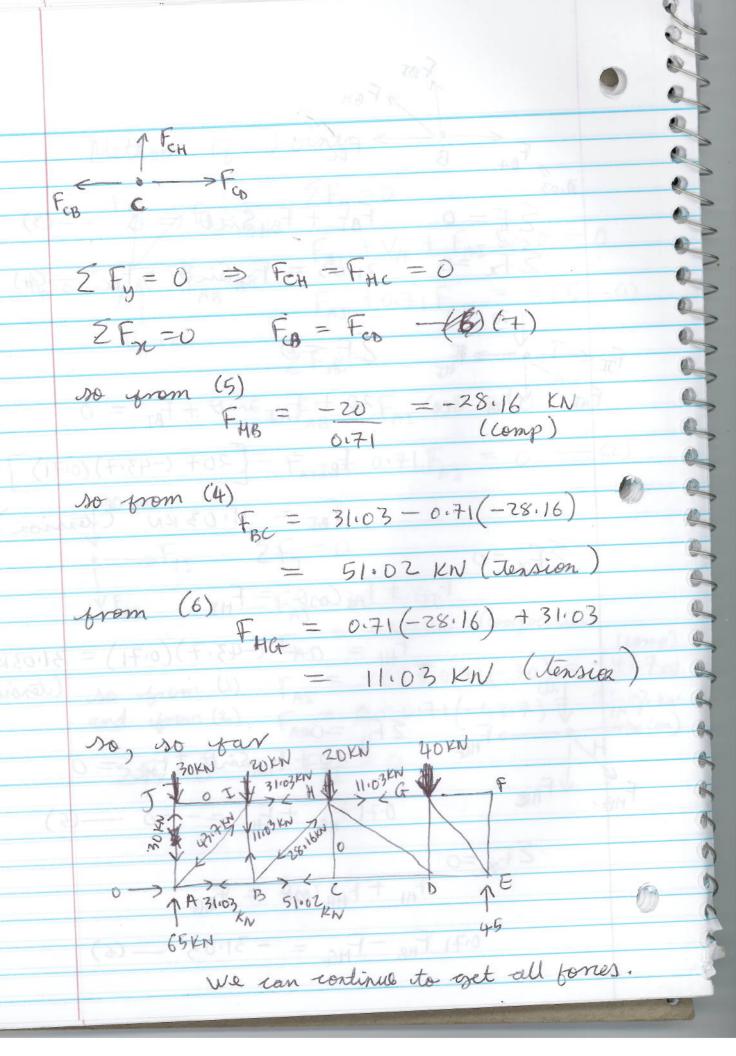
$$\Sigma F_y = 0$$

$$V_A + V_E = 30 + 20 + 20 + 40$$

$$V_E = 45 \text{ KN}$$



5 Fr = 0 FBI + FBH Sin 0 = 0 - (3) 2 Fx =0 31:03 = FBH Sin 8 + FBC -(4) For ZFy = 0 20 + FAI Sin 0 + FBI = 0 FBI = - (20+ (-43.7) (0.71) FBI = 11.03 KN (tension) FIT + FAI COSO = FHI FHI = 0+ (-43.7)(0.71) = 31.03KW 20 >FHG ZFy =0 20+FHBSind+FHC = 0 071 FHB + FHC = - 20 - (5) ZFn=0 Fn+FnB(on0 = FnG 071 FHB - FHG = -31.03 - (6)



Method of Sections. After determining support reactions, we of interest G V 40 XN 30 KN 20 KN 1 HG KN we can base of of other side of cut, It's your reall 30 + 20 = 65 + FBH Sind FBH = 30+20-65 = -21.12 (comp) > So there is an error in my Method of Joints. Caution Students, check my

2FX=0 5 MA = 0 -20(4) - FAI (4) + FBH Sin O (4) =0 $F_{HI} = +20(4) + (-21.12)(4) = -1.58 \text{ KN}$ 0.71 (4) My answer does not match my Method of Fointy, Students, please chech my arithmetic. They should be the same, Thank ujou! 5F=0 FMI + FBH COOD + FBC = 0 FBE= +1158 + 2112 (0.71) = 16.57 KN (tension) Again, did not match my Mothod of Joint calculation, and it should. Please check my arithmetic. Thanks. none no a erest of Conting in my Methot of Jours