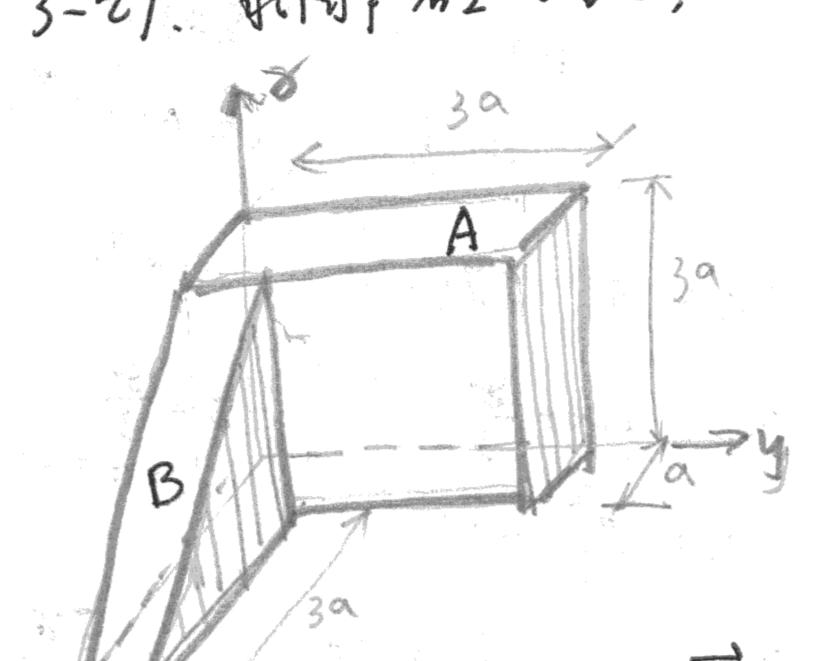
3-77、花图中石公司量小,该有=3m



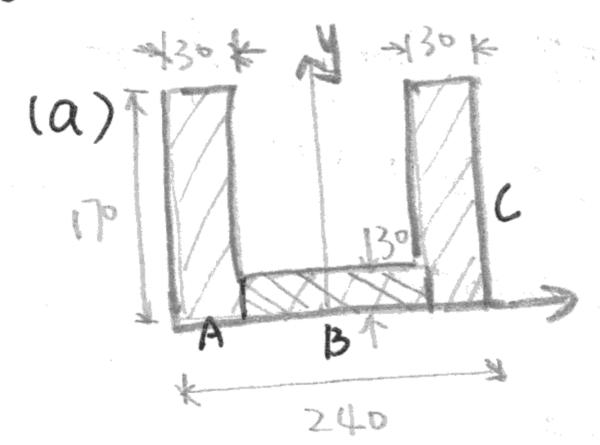
六字: 将磁整分级如图两种为 A 表明.

有:
$$V_A = 9a^3$$

$$V_B = \frac{9a^3}{2}$$

$$\overline{\chi}_{c} = \frac{V_{A} \cdot \overline{\chi}_{cA} + V_{B} \cdot \overline{\chi}_{cB}}{V_{A} + V_{B}} = \left(\frac{\alpha}{3} + \frac{2}{3}\alpha\right)^{\frac{1}{3}} + \left(\alpha + \frac{\alpha}{3}\right)^{\frac{1}{3}} + \left(\alpha + \frac{\alpha}{3}\right)^{\frac{1}{3}}$$

3-28. 求部面形公



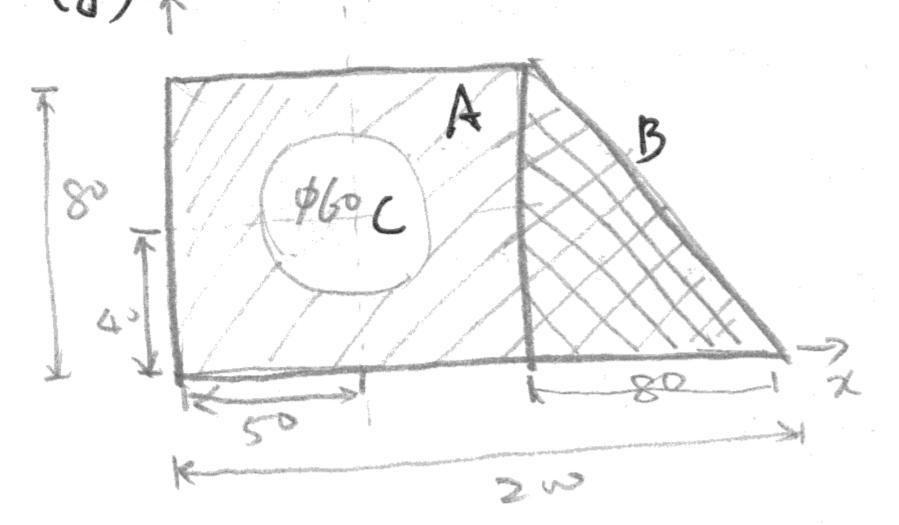
る ゆるがえ 20=0

将和何的成 A,B,C 三部

$$y_{cB}=15$$
 , $y_{cA}=y_{cc}=85$ 81000
有: $y_{c}=\frac{170\times30\times85\times2+30\times180\times15}{170\times30\times2+30\times180}$ 15600

(d) 14

:3.积万百春春A+B-C, 其中A为80X120年(1)



13为8以知与角形 CX 12/2 d= 60 GS[2]

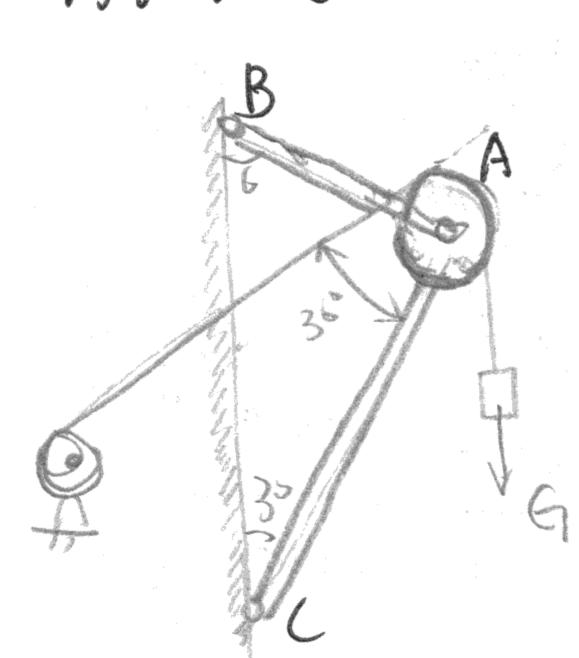
SA = 9600 知: ZB = 120+ 80 = 146.68, Sp= 802 = 3200

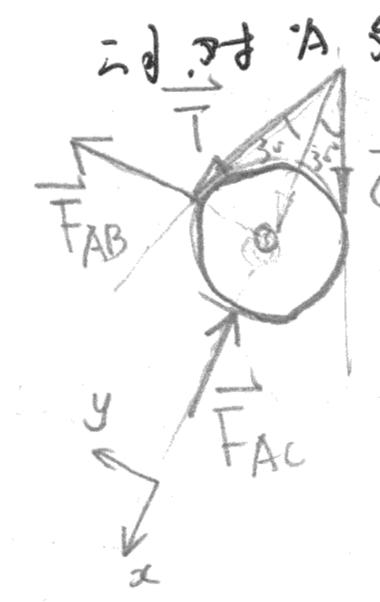
x = 50, y = 40, $S = 730^2$

$$\mathcal{L} = \frac{9600\times50+3200\times146.68}{9600+3200-2827.43} = \frac{90.7 \text{ mm}}{9972.57}$$

$$y_{c} = \frac{9600 \times 40 + 3200 \times 2668 - 2827.43 \times 40}{9972.57}$$
 = 35.7 mm

3-2、如同、起和UBAC,至9=101和传教由济阳都。, A,BC的铃链, 甙 荷新马的上平时AB和和罗列以为





可对为外清论进行多为新,社交为

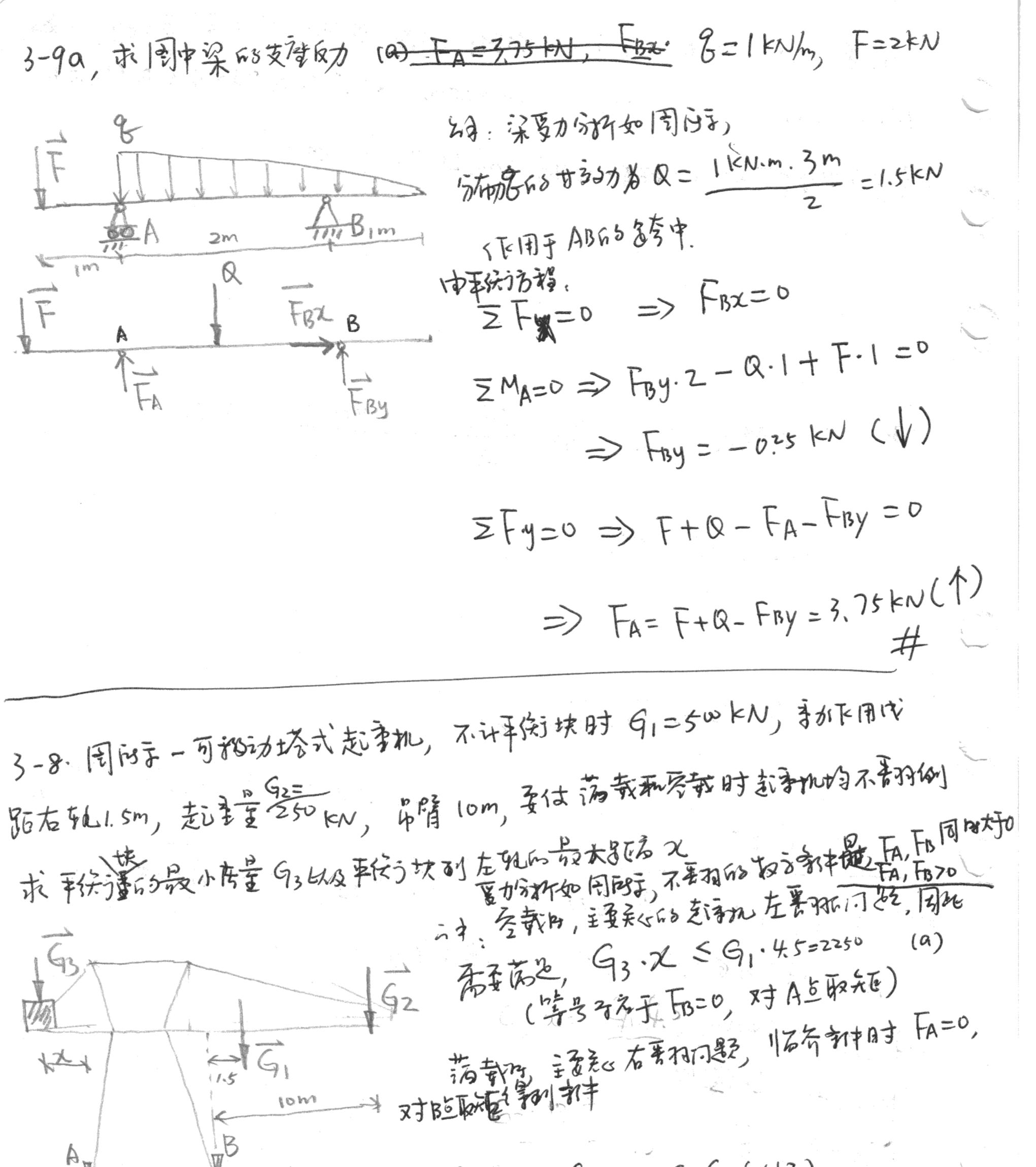
取结为如何

173.KN

图地AC轩夏压,AB科不变力。

3-4. 军面机局 ABCD, ABTOCO GIOGRAMB, 在国中的现在于军门, 已知。 M1=0.4N·m, AB=10cm, LD=22cm, tiA.D处约年成为及M2大子 二十.1)至加州万元。13公科的二为村.(AB,LD新邓是二加村) P扩和,有: FBC = FA = M1 = 0.4N·M 0.05 m 0.05 m 有: FCB=FD=FBC=8N 142= Fp. co.sin75° = 8.0.22 x 0,966 = 1.70 N.m. 3-5 如同、AB.BC在B端目校成60°,A端息柱,已知BC=2AB 花 ABC年的时(静作用下), BC与小阳的征有人, 1005(60°-00) 可, ABC杆多为分析如有同 平约分上在平约时 MA=0,有 Gz. AB. Cus (60-0x) = G1 (BC cos X-AB) (05(60-1)) 92= 31 AB = BC

 $= \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{\cos \alpha}{2} \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$ $= \frac{1}{2} \cos(60^{\circ} - \alpha) = \frac{1}{2} \cos(60^{\circ} - \alpha)$



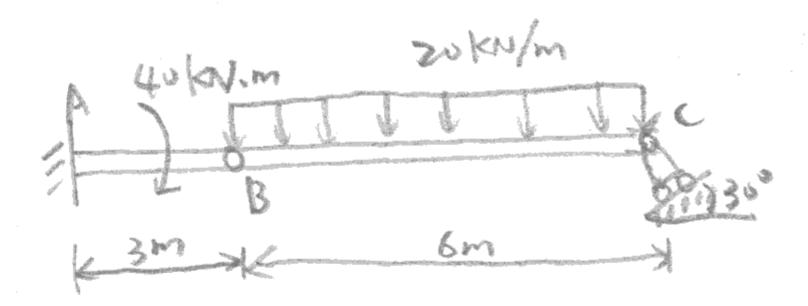
 $\frac{G_{12}.10+G_{1}.1.5}{2500} \leq G_{3}(\chi+3)$

两了11高台部间的范围的 可得到

G3 \$ 333 KN.

2C= 6.75m

3一心,青轮的经济,如图:, 成药的和中间铰链反为



为主:

取13人村号的柳甸.

对的点取流。

$$\frac{2}{2} \frac{1}{4} \frac{1}{16} \frac{1$$

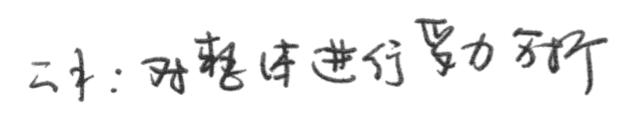
$$M_A = 0$$
 \Rightarrow $F_{BY} \cdot 6 = Z_{0x}6x3 \Rightarrow$ $F_{BY} = 60 \text{ kN}$

$$EM_{A}=0$$
 => $M_{A}+M_{1}+F_{RY}\cdot 3=0$
=> $M_{A}=-40-60\times 3=-220\,\text{kN}\cdot\text{m}$ (5) #

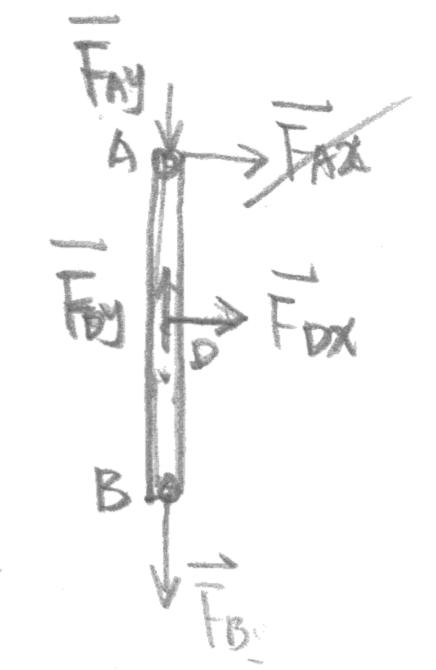
3-11. 巷链网架载荷如图,求变物和中间锁反力 8 20 FN/m F= 50KN 的部格事的好。如何 B.ZMA = 0 => F.5+8.5.7.5-Fay.10=0 => Fry= LOOKN 2MB=0=> FAY. 10 + 50.F. 5 - 8.5.2.5 = 0 => FAY= 0 取AC科育研究系, Bosh $\sum F_y=0 \Rightarrow F_{Ay}+F_{Cy}=0 \Rightarrow F_{Cy}=0$

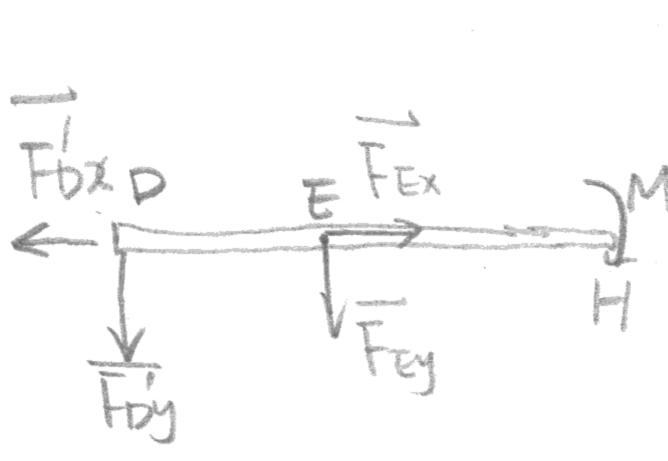
3-15如目.构筑由AB. AC和DH领海石成,在时科打作用为得州,不计

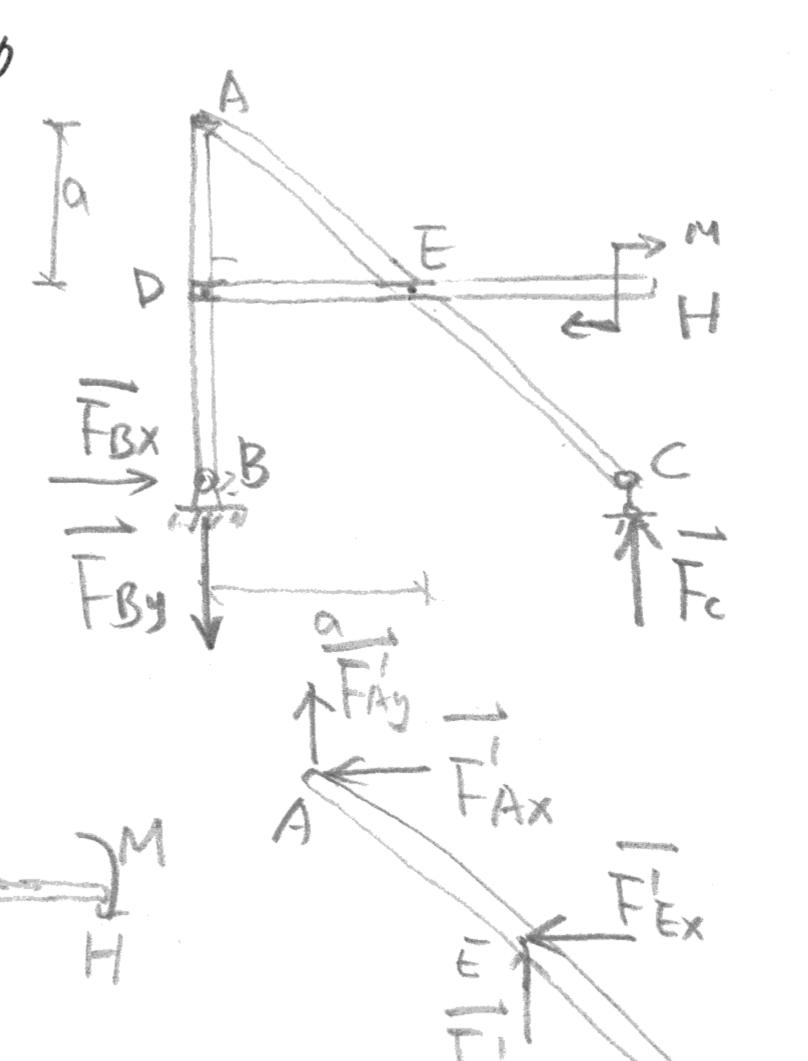
量, 机解杆上A.DB处的约束反力



$$\Rightarrow F_c = F_{By} = \frac{14}{2a}$$







AB. DH, ACG 等的新加到

$$\Rightarrow$$
 $F_{Ay} = \frac{14}{29}$

#