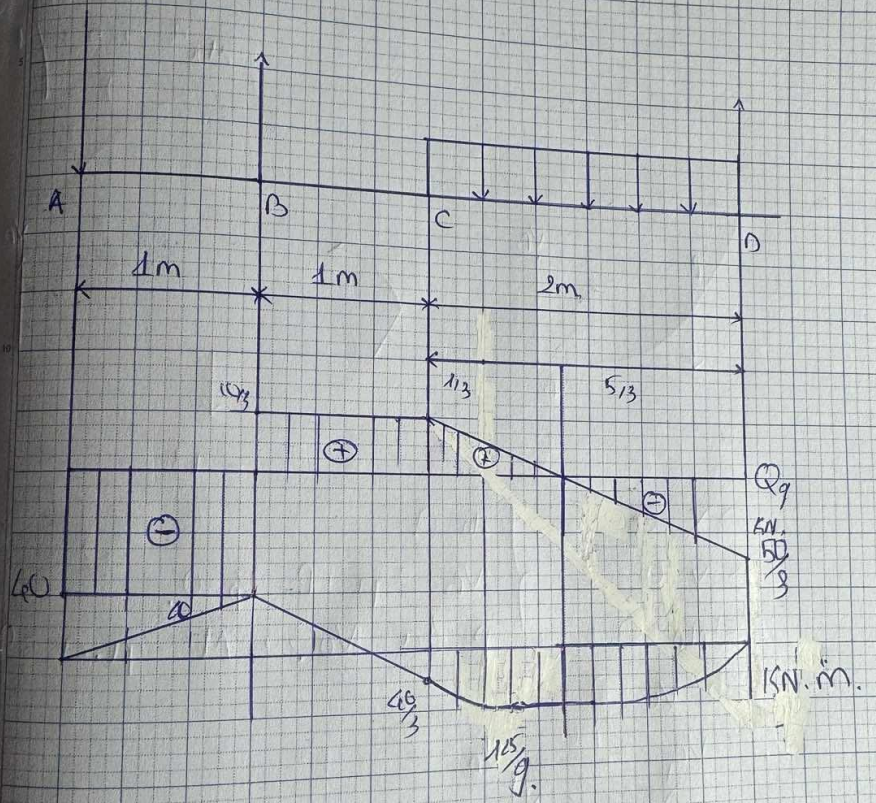
Câu 1



$$Q_y^{B.} = -P + V_B = -40 + \frac{130}{3} = \frac{10}{3}.$$

$$Q_y^{D} = \frac{10}{3} - 2 \cdot 10 = -\frac{50}{3}$$

$$z = \frac{Q11}{Q} = \frac{1}{3}$$

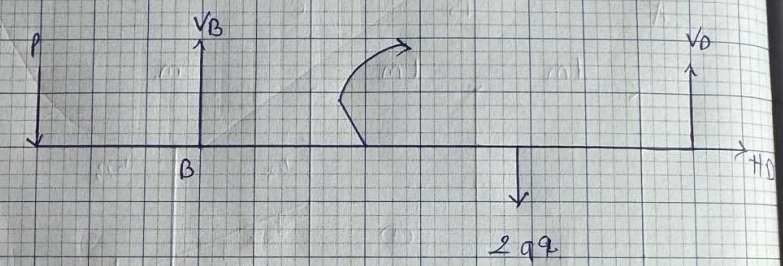
$M_x = 0 - 40 \cdot 1 = 40$

$M_x = -40 + \frac{10}{3} \cdot 1 = -\frac{110}{3}$

$M_x^{ok} = -\frac{110}{9} + 50 =$

$M_x^{ok} = \frac{40}{3} + \left(\frac{1}{2} \cdot \frac{10}{3} \cdot \frac{3}{3}\right) = \frac{125}{9}$

$M_x^{ok} = \frac{125}{9} - \left(\frac{1}{2} \cdot \frac{10}{3} \cdot \right)$



$\Sigma X = 0$

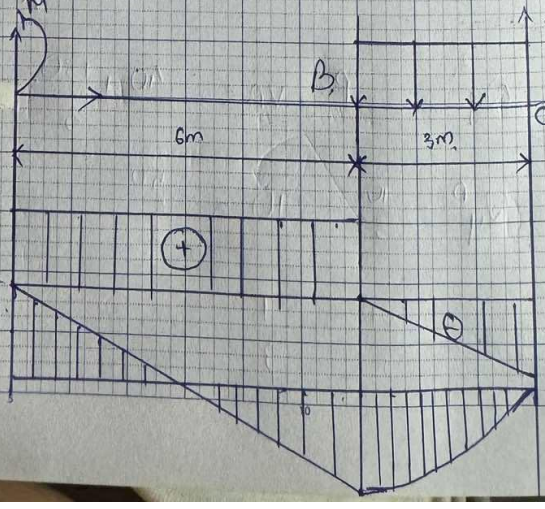
$\Sigma Y = 0 \Leftrightarrow$ $H_D = 0$.

$-V_B + 2qa + P - V_D = 0$.

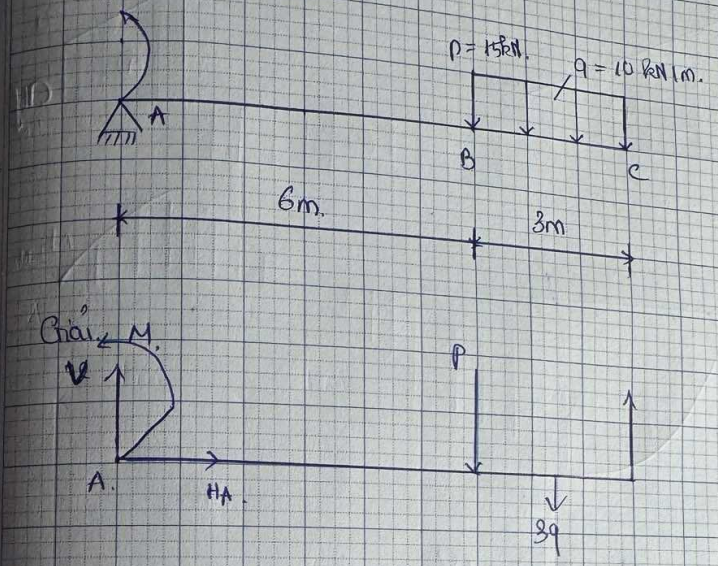
$\Sigma M_D = 0$ $\quad P \cdot 4a - V_B 3a - M + 2qa \cdot a = 0$.

$\Rightarrow V_D = 0$.

$V_B = \frac{130}{3}$ $\quad V_D = \frac{30}{9}$



Câu 2.



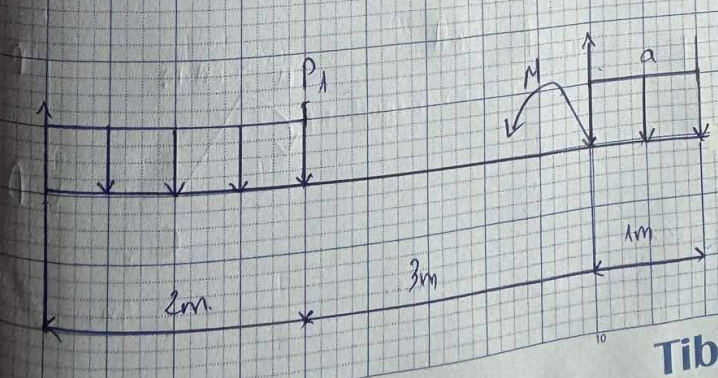
Giải: M.

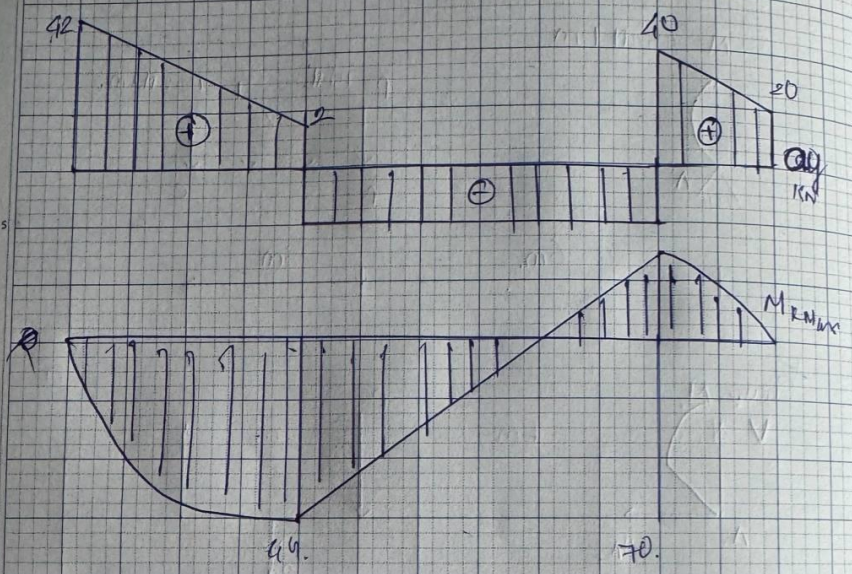
$$\Sigma X = 0 \quad \Sigma Y = 0 \quad \Sigma M_A = 0.$$

$$\Rightarrow \begin{cases} H_A < 0. \\ V_C + 3q + P - V_A = 0 \\ M - P.6 + 3q.2,5 + V_C 9 = 0 \end{cases}$$

$$\Rightarrow H_A = 6.$$

$$V_C = 30 \; ; \; V_A = 15.$$





$Q_y = 38 - 2.20 = 18.$

$Q_y = 18 - 20 = -2, \quad -2 + 42 = 40$

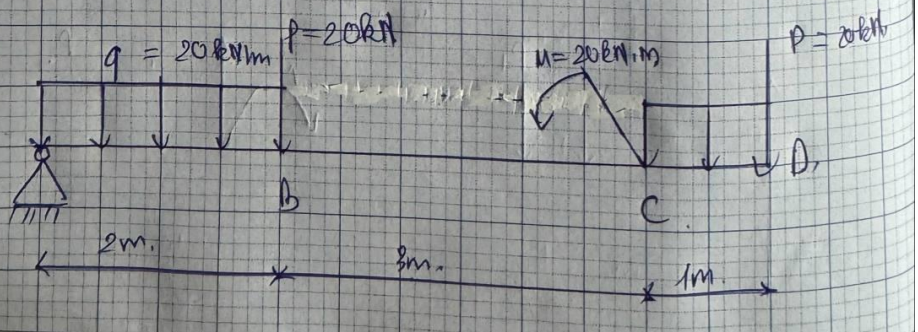
$Q_y = 40 - 20.1 = 20.$

$M_k = 0 + \frac{1}{2}(2+2)\times 2 = 44$

$M_k = 44 - 18.3 - 20 = -30$

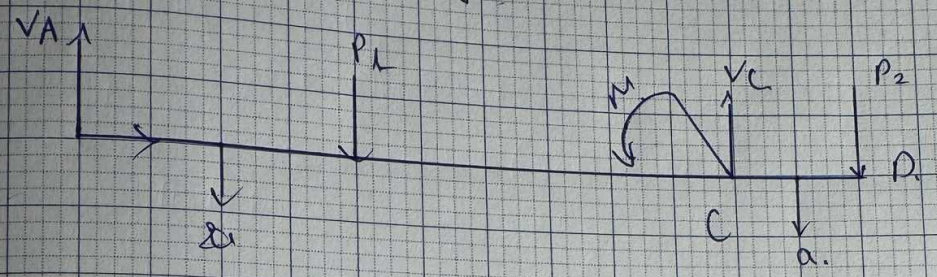
$M_k = -30 + \frac{1}{2}(40+20).1 = 0.$

Câu 3:



No
Date

giải.



$$\Sigma X = 0. \quad \Sigma Y = 0. \quad \Sigma M_A = 0.$$

$$\Rightarrow \begin{cases} H_A = 0. \\ q - V_A + 2q + P_1 - V_C + q + P_2 = 0 \\ -2q - P_1 \cdot 2 + M + V_C \cdot 5 + q \cdot 5 \cdot \frac{5}{2} - P_2 \cdot 6 = 0. \end{cases}$$

$\Rightarrow H_A = 0.$

$V_C = 50, \; V_A = 42.$