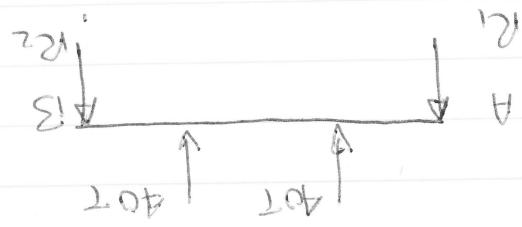


DRAW THE B.M. DIAGRAM



CONSIDER SECTION A-B AS SIMPLY SUPPORTED

$$\text{ASSUMING } A \quad I = 168000 \text{ mm}^4, E = 200,000 \text{ N/mm}^2$$

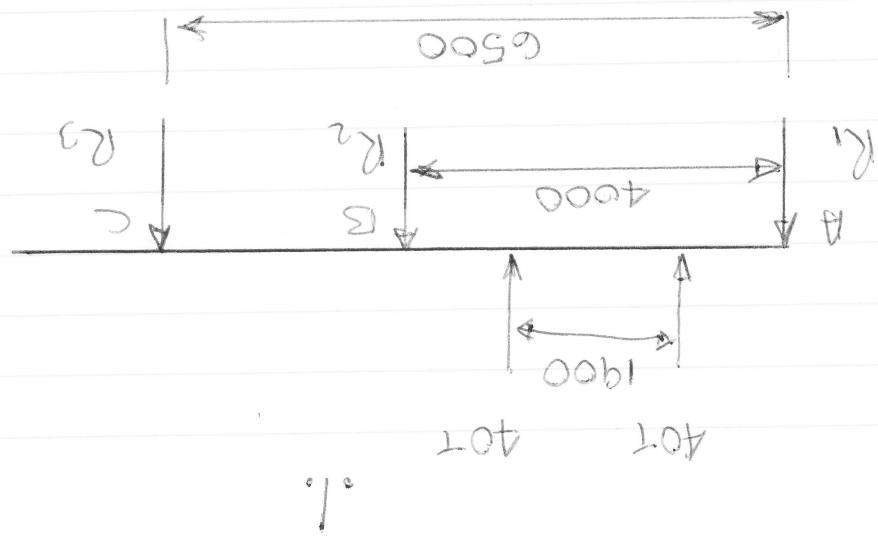
NOT TRUE

$$\therefore 2M_b(L_1 + L_2) = -6\overline{Aa}$$

EXTERNAL LOADS ON L2
NOW $M_a \neq M_c$ $M_{aST} = 0$, ALSO THERE ARE NO

$$M_aL_1 + 2M_b(L_1 + L_2) + M_cL_2 = -6\overline{Aa} - 6\overline{Ab}$$

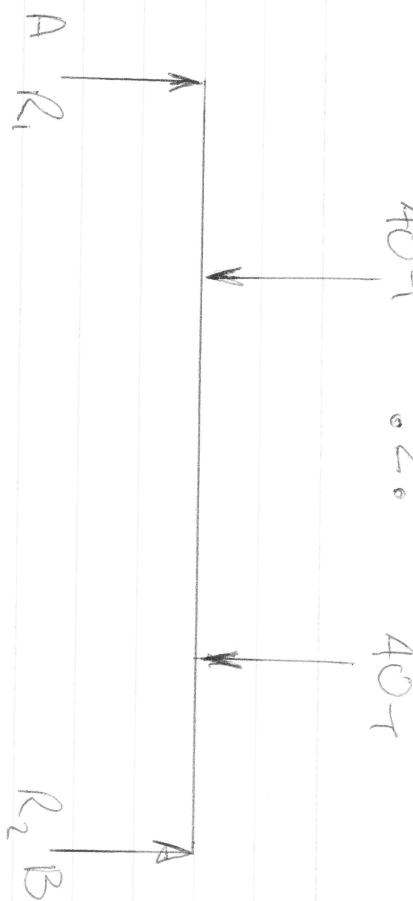
USING THREE MOMENT EQUATION



40T

2.

40T



$$2M_B(L_1 + L_2) = -\frac{cA_1 \bar{a}_1}{L_1}$$

$$2M_B(4000 + 2500) = -6 \times \left(\frac{1050 \times 412.02 \times 10^6}{4000} + \frac{1900 \times 412.02 \times 10^6}{4000} \right)$$

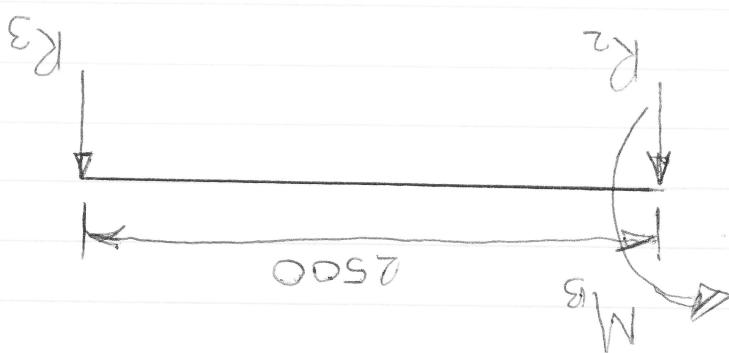
$$\underline{M_B = -280490538.5 \text{ Nmm}}$$

$$\therefore R_1 + R_2 + R_3 = 80 \times 1000 \times 9.81$$

$$R_3 = -112196.24135 \text{ N}$$

$$R_3 = \frac{-2500}{280490538.5}$$

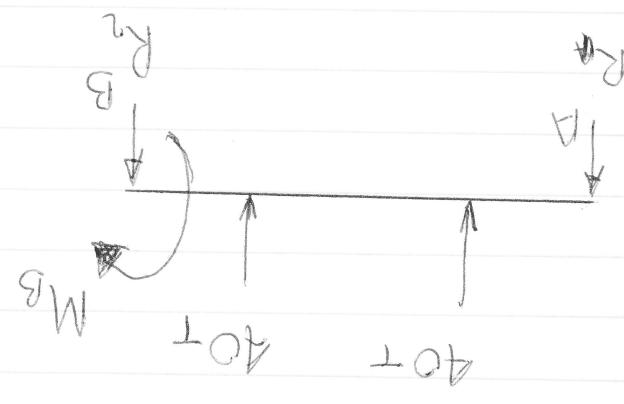
$$M_B - 2500 R_3 = 0$$



$$R_1 = 322277.353 \text{ N}$$

$$-280490538.5 \text{ N}$$

$$\therefore R_1 \times L_1 = 412.02 \times 10 \times 1050 - 412.02 \times 10 \times 2950 =$$



3.

$$322277.353 + R_2 + (-112196.2135) =$$

$$4. \quad \rightarrow 80000 \times 9.81$$

$$\underline{R_2 = 574718.8624 N}$$

