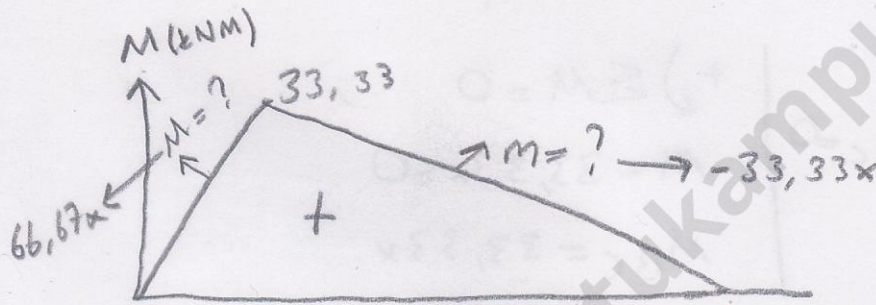
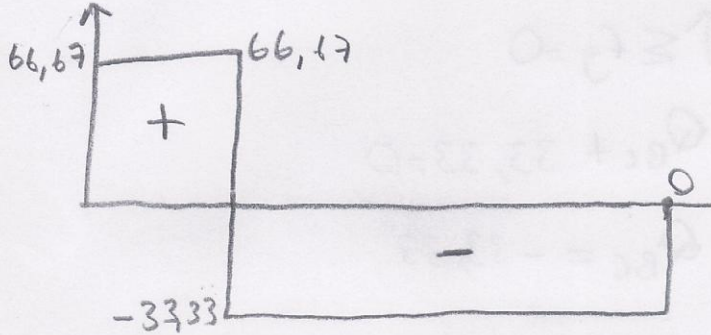
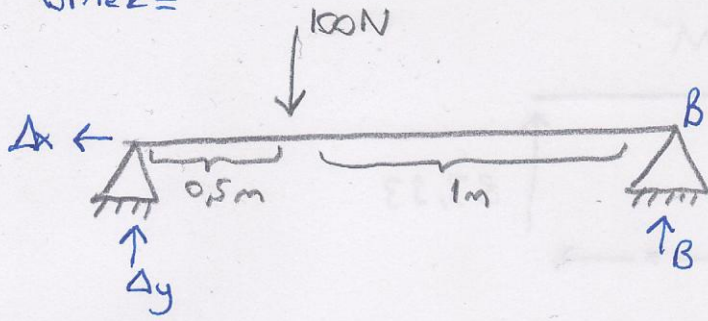
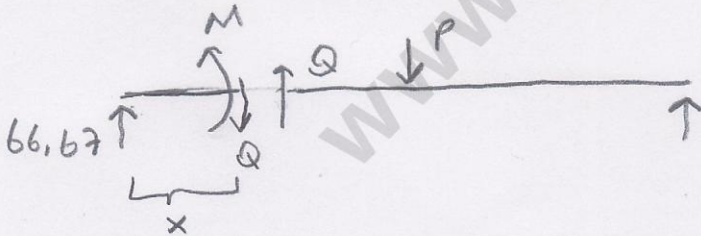


Örnek =

 $0 \leq x < 0,5$ AC aralığı

$$\uparrow \sum F_y = 0 \quad 66,67 - Q_{AC} = 0$$

$$Q = 66,67 \text{ kN}$$

$$+\circlearrowleft \sum M = 0 \quad 66,67x - M_{AC} = 0$$

$$M_{AC} = 66,67$$

$$\uparrow \sum F_y = 0$$

$$Q - 100 + 33,33 = 0$$

$$Q_{AC} = 66,67$$

$$+\circlearrowleft \sum M = 0$$

$$+M_{AC} + 100(x-1) - 33,33x$$

$$M_{AC} = -66,67x \quad \checkmark$$

$$+\circlearrowleft \sum F_x = 0$$

$$-\Delta_x = 0 \quad \underline{A_x = 0}$$

$$+\circlearrowleft \sum M_B = 0$$

$$A_y \cdot (1,5) - (100 \text{ kN}) 1 \text{ m} = 0$$

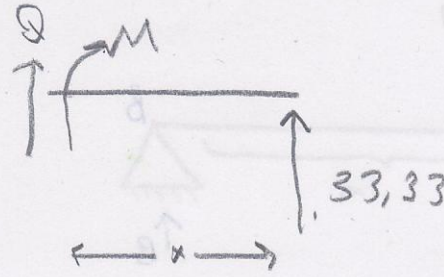
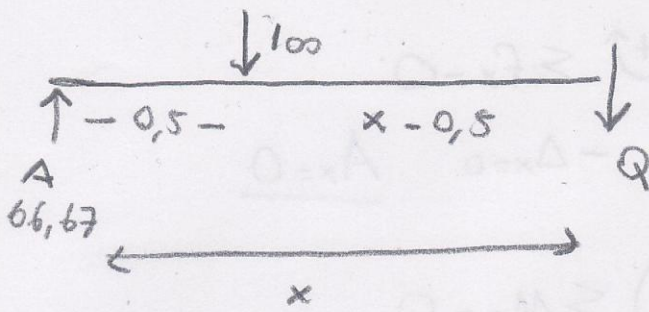
$$\uparrow \underline{A_y = 66,67}$$

$$\uparrow \sum F_y = 0$$

$$66,67 - 100 + B = 0$$

$$\uparrow \underline{B = 33,33}$$

B-C $0,5 \leq x \leq 1,5m$



$$+\uparrow \sum F_y = 0$$

$$66,67 - 100 - Q_{BC} = 0$$

$$Q = -33,33$$

$$+\uparrow \sum F_y = 0$$

$$Q_{BC} + 33,33 = 0$$

$$Q_{BC} = -33,33$$

$$+\curvearrowright \sum M = 0$$

$$66,67 \cdot x - 100(x - 0,5) - M_{BC} = 0$$

$$-33,33x + 50 = M_{BC}$$

$$+\curvearrowright \sum M = 0$$

$$M - 33,33x = 0$$

$$M_{BC} = 33,33x$$

örnek =



$$\uparrow \sum F_y = 0$$

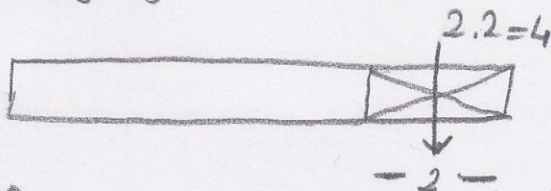
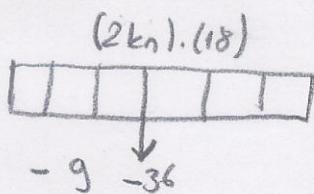
$$B_y - (2 \cdot 16) - 1 - 1 = 0$$

$$\uparrow B_y = 38$$

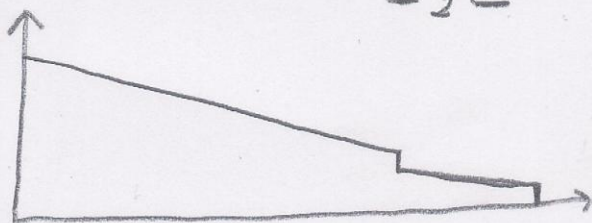
$$+\circlearrowleft \sum M = 0$$

$$M_B + (2 \cdot 16) \cdot 8 + 1 \cdot 16 + 1 \cdot 16 = 0$$

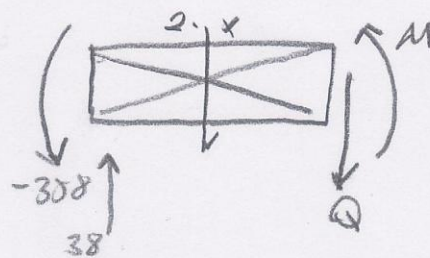
$$M_B = -358$$



$$M_C = -1 \cdot 2 - 4 \cdot 1 = -6 \text{ kN}$$



$$0 \leq x \leq 16 \quad BC$$



$$\uparrow \sum F_y = 0$$

$$38 - 2 \cdot x - Q = 0$$

$$Q = -2x + 38$$

$$+\circlearrowleft \sum M_i = 0$$

$$-358 + 38x + 2x - 2x \cdot \frac{x}{2} - M_{BC} = 0$$

$$-x^2 + 38x - 358 = M_{BC}$$

