

Suite: module Calcul des structures
3^e année Génie Civil
(2^e Semestre)

EXERCICE 2: 10,5

②,5 $M_0 \cdot l_0 + 2M_1(l_0 + l_1) = -6(w_0 a_0/l_0 + w_1 b_1/l_1)$

②,5 $M_0 \cdot l_1 + 2M_1(l_1 + l_2) + M_2 \cdot l_2 = -6(w_1 a_1/l_1 + w_2 b_2/l_2)$

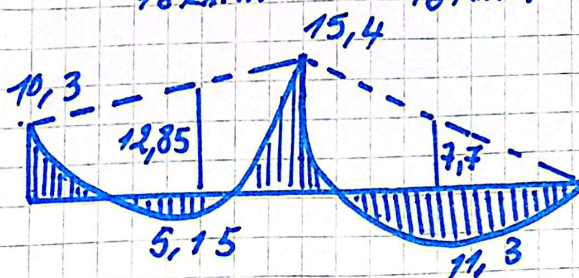
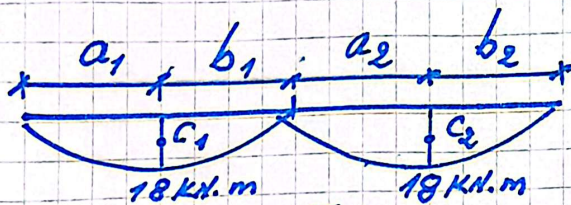
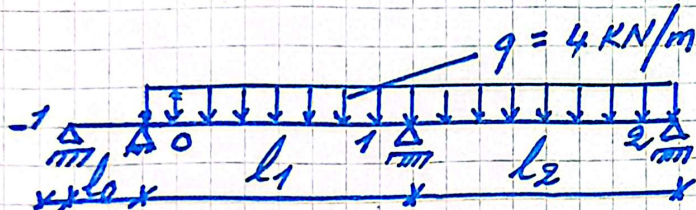
⑦ $w_0 = 0; w_1 = w_2 = \frac{2}{3} \cdot 6 \cdot 18 = 72 \text{ KN} \cdot \text{m}^2$

⑦ $a_1 = b_1 = a_2 = b_2 = 3 \text{ m}; M_1 = 0; M_2 = 0; l_0 = 0$ ②,5

⑦ $12M_0 + 6M_1 = -6 \cdot 72 \cdot 3/6 = -216$ ②,5

⑦ $6M_0 + 24M_1 = -36; 6M_0 + 24M_1 = -6(72 \cdot 3/6 + 72 \cdot 3/6) = -432$

⑦ $M_0 + 4M_1 = -72; M_0 = 10,3 \text{ KN} \cdot \text{m}; M_1 = -15,4 \text{ KN} \cdot \text{m}$ ①



(M) . KN.m ①