

Section 1-1 : $0 \leq x \leq 1 \text{ m}$

$$T(x) = V_A - 3x \quad \text{et} \quad M(x) = V_A \cdot x - \frac{3}{2} x^2$$

$$T(0) = 5 \text{ KN} \quad M(0) = 0 \quad \text{et} \quad T(1) = 2 \text{ KN} \quad M(1) = 3.5 \text{ KN.m}$$

Section 2-2 : $1 \text{ m} \leq x \leq 2.5 \text{ m}$

$$T(x) = V_A - 3x - 4 \quad \text{et} \quad M(x) = V_A \cdot x - \frac{3}{2} x^2 - 4(x-1)$$

$$T(1) = -2 \text{ KN} \quad M(1) = 3.5 \text{ KN.m} \quad \text{et} \quad T(2.5) = -6.5 \text{ KN} \quad M(2.5) = -2.875 \text{ KN.m}$$

Section 3-3 : $2.5 \text{ m} \leq x \leq 3 \text{ m}$

$$T(x) = V_A - 7 - 3x - 4 \quad \text{et} \quad M(x) = V_A \cdot x + 7 \cdot (x - 2.5) - \frac{3}{2} x^2 - 4 \cdot (x - 1)$$

$$T(2.5) = -13.5 \text{ KN} \quad M(2.5) = -2.875 \text{ KN.m} \quad \text{et} \quad T(3) = -15 \text{ KN} \quad M(3) = -10 \text{ KN.m}$$

Section 4-4 : $0 \text{ m} \leq x \leq 1 \text{ m}$ (de droite à gauche)

$$T(x) = 10 \text{ KN} \quad \text{et} \quad M(x) = -10x$$

$$T(0) = 10 \text{ KN} \quad M(0) = 0 \text{ KN.m} \quad \text{et} \quad T(1) = 10 \text{ KN} \quad M(1) = -10 \text{ KN.m}$$