D fundaments
$$\rightarrow M = \frac{M^2}{2}$$
 $\Rightarrow k_1 \text{ with the case} \rightarrow \frac{1}{2} \left(\frac{k_1 \circ x}{L} \right) (x) = \frac{k_2 \circ x^2}{2L}$
 $\Rightarrow k_2 \text{ with the case} \rightarrow \frac{1}{2} \left(\frac{k_1 \circ x}{L} \right) (x) = \frac{k_2 \circ x^2}{2L}$
 $\Rightarrow k_1 \text{ with the case} \rightarrow \frac{1}{2} \left(\frac{k_1 \circ x}{L} \right) (x) = \frac{k_2 \circ x^2}{2L}$
 $\Rightarrow k_1 \text{ with the case} \rightarrow \frac{1}{2} \left(\frac{k_1 \circ x}{2} \right) (x) = \frac{k_2 \circ x^2}{2L}$
 $\Rightarrow k_1 \text{ with the case} \rightarrow \frac{k_2 \circ x^2}{2L} \left(\frac{k_1 \circ x}{2} \right) + M = 0$

Integrando

$$M(x) = -\frac{k_1 \circ x^2}{2L} - k_2$$
 $\Rightarrow k_1 \text{ with the case} \rightarrow \frac{k_2 \circ x^2}{2L} + C_1$
 $\Rightarrow k_2 \text{ with the case} \rightarrow \frac{k_1 \circ x^2}{2L} + \frac{k_2 \circ x^2}$