$m=3 \Rightarrow \text{grad } F = 2$

Alegem $x_1 = 1, \quad s_1 = 13$

$x_2 = 2, \quad s_2 = 18$

$x_3 = 3, \quad s_3 = 25$

$$F = \sum_{i=1}^{3} s_i \prod_{\substack{j=1 \\ j \neq i}}^{3} \frac{x - x_j}{x_i - x_j} = 13 \cdot 2^{-1}(x-2)(x-3) + 18 \cdot (-1)^{-1}(x-1)(x-3) + 25 \cdot 2^{-1}(x-1)(x-2)$$

$$= 13\,16\,(x^2 - 5x + 6) + 18 \cdot (-1)(x^2 - 4x + 3) + 25 \cdot 16\,(x^2 - 3x + 2)$$

$$= 22(x^2 - 5x + 6) - 18(x^2 - 4x + 3) - 3(x^2 - 3x + 2)$$

$$= x^2 + 2x + 10$$

$\Rightarrow$ parola este $M = 10$