$\rho_2(x) = Ax^2 + Bx + C$  $\int_{-h}^{h} P_2(x) = \underbrace{\frac{Ax^3}{3} + \underbrace{\frac{Bx^2}{x^2}}_{x^2} + Cx}_{h}$  $= \left(\frac{Ah^{3}}{13} + \frac{Bh^{2}}{2} + ch\right) - \left(-\frac{Ah^{3}}{3} + \frac{Bh^{2}}{2} - ch\right) = 2A\frac{h^{3}}{3} + 2ch = \frac{h}{3}(2Ah^{2} + 6C)$ (-h, fo), (0, f1) y (h, f2) } evaluados en  $I = 2A \frac{h^3}{3} + 2Ch$ donde :  $(-x, y_0), (0, y_1), y(x, y_2)$  $\bigcirc Ax^2 + Bx + C = A(-x)^2 + B(-x) + C$ (11)  $4x^2 + 8x + C = 4x^2 + 8x + C$  $= Ax^2 - Bx + c$ Ah2 - Bh +C Ah2 +Bh +C (11)  $Ax^2 + Bx + C = A(0)^2 + B(0) + C$   $(y_1)(0) + C$  $y_0 = Ah^2 - Bh + C$   $2Ah^2 + 2C = y_0 + y_2$   $y_2 = Ah^2 + Bh + C$   $2Ah^2 = (y_0 + y_2) - 2C$   $2Ah^2 + 2C$ reemplozando (1) en I  $I = \frac{h}{3} \left[ (y_0 + y_2) + 2C + 6c \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4c \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_1 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left[ (y_0 + y_2) + 4y_2 \right] = \frac{h}{3} \left$