EJERCICIO 08.

•
$$p_2(t) = f_{m+1} \left[\frac{t - bn}{t_{m+1} - tn} \right] \left[\frac{t - t_{m-1}}{t_{m+1} - tn} \right] + f_m \left[\frac{t - t_{m+1}}{t_m - t_{m+1}} \right] \left[\frac{t - t_{m+1}}{t_m - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m+1}} \right] \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m+1}}{t_{m-1} - t_{m-1}} \right] + f_{m-1} \left[\frac{t - t_{m-1}}{t_{m-1} - t_{m$$

=>
$$P_2(t) = \frac{\int m_1}{2h^2} [t-tn][t-tn_1] + \frac{\int n}{-h^2} [t-tn_1][t-tn_1] + \frac{\int n_1}{2h^2} [t-tn_1][t-tn_1]$$
.

•
$$y_{n+1} = y_n + \frac{5h}{12} f_n + \frac{2h}{3} f_{n+1} - \frac{h}{12} f_{n-2}$$

•
$$P_3(1) = f_{n+1} \left[\frac{t - t_{n-1}}{t_{n+1} - t_{n}} \right] \left[\frac{t - t_{n-2}}{t_{n+1} - t_{n-1}} \right] + f_n \left[\frac{t - t_{n+1}}{t_n - t_{n+1}} \right] \left[\frac{t - t_{n-2}}{t_n - t_{n-2}} \right] + f_{n-2} \left[\frac{t - t_{n+1}}{t_n - t_{n+1}} \right] \left[\frac{t - t_{n-2}}{t_n - t_{n-2}} \right] + f_{n-2} \left[\frac{t - t_{n+1}}{t_{n-2} - t_{n+1}} \right] \left[\frac{t - t_{n-2}}{t_{n-2} - t_{n-2}} \right]$$

=>
$$P_3(+) = \frac{\int_{-\infty}^{\infty} [t-t_1][t-t_{1}][t-t_{1}]}{(H_{-2})^3} [t-t_{1}][t-t_{1}][t-t_{1}][t-t_{1}]$$

•
$$y_{nu} = y_n + \frac{3h}{8} f_{nn} + \frac{15h}{24} f_n - \frac{5h}{24} f_{n-1} + \frac{h}{24} f_{n-2}$$