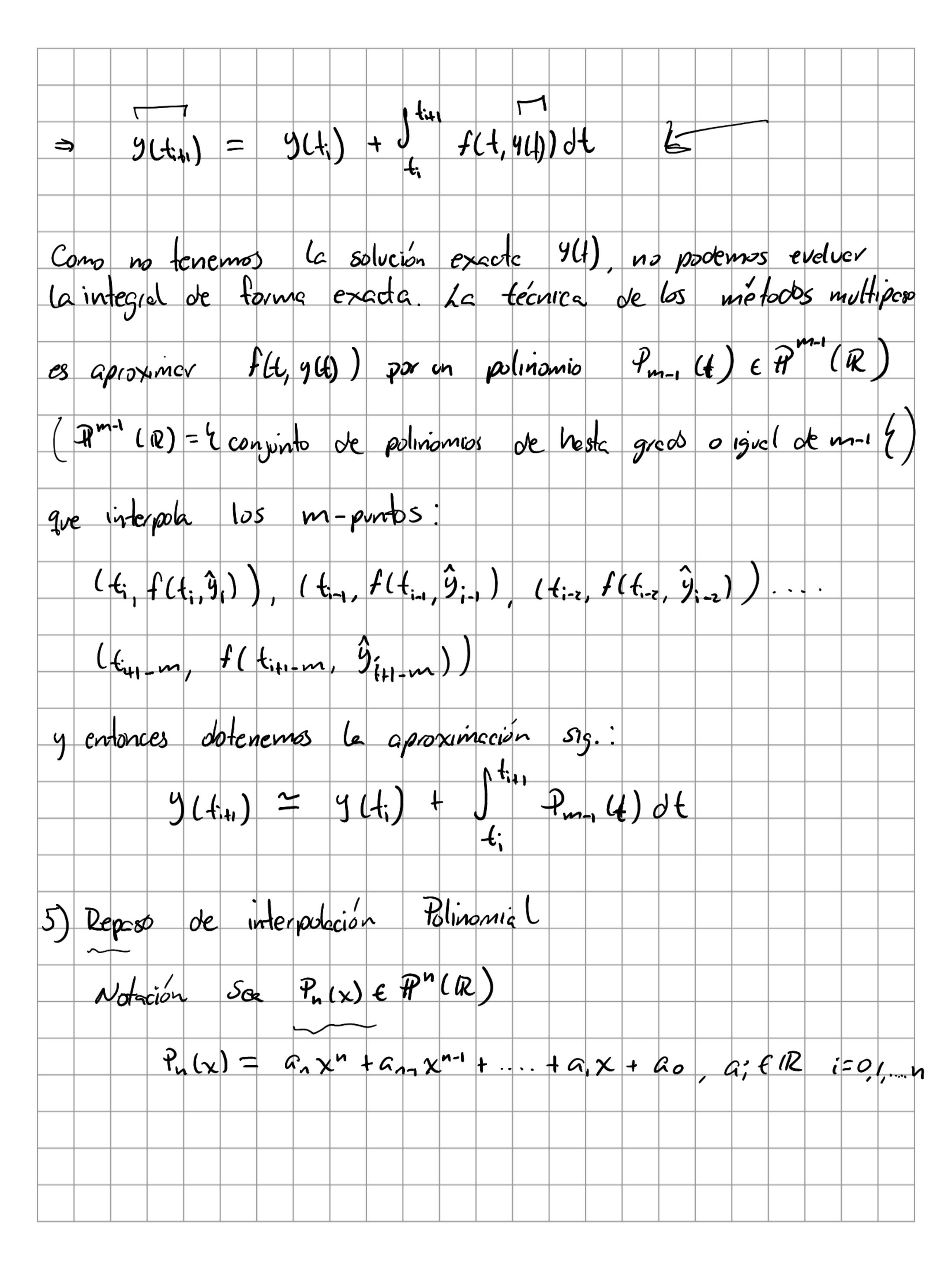


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s es un entero positivo  $\chi = \chi_n + 5h$ entonces se define  $P_{n}(x) = f(x_{n}) + (-1)'/-5) \nabla f(x_{n}) + (-1)^{2}(z) \nabla^{2} f(x_{n})$  $+ \dots + (-1)^{n} \left(-\frac{5}{n}\right) \nabla^{n} f(\chi_{n}) = f(\chi_{n}) + \frac{2}{n} (-1)^{k} \left(-\frac{5}{k}\right) \nabla^{k} f(\chi_{n})$ -5 \ = (-1) K 5 (5+1) (5+2) ... (5+K-1) , K7, 1 5.111) Teorema de interpolación polinomial por diferencias atrasolos Seen los (141)-puntos Xn, Xm, ..., X, xo equistantes distintos
y protenedos y sea f E C141 [a, b]. Entonces para  $x = x_{n+1} + 5h$ ,  $5 \in El^{+}$ ,  $h = x_{n-1} = ... = x_{i-x_{0}}$ 2 Etabl existe a Etabl tal que  $f(x) = P_n(x) + \frac{f^{(n+1)}(\xi)(x-x_0)(x-x_1)\dots(x-x_n)}{(n+1)!}$ 

