$f(x) \approx f(a) \frac{(x-x_m)(x-b)}{(a-x_m)(a-b)} + f(x_m) \frac{(x-ia_b)(x-b)}{(x_m-a)(x_m-b)} + f(b) \frac{(x-a)(x-x_m)}{(b-a)(b-x_m)} = f(x)$ Sea h= b-a = xm-a=b-xm P(x)= F(a) (x-xm)(x-b) + F(xm) (x-a)(x-b) + F(b) (x-a)(x-xm)
2h2 Para resolver Pexide: Se resuelve la primera integral: J Fra) (x-xm) (x-b) dx = Fra) (x-b) dx La integral Ja-2)(x-b) dx=(x-2)(x-b)2-(x-b) J F(a) (x-xm)(x-b) dx = F(a) [(x-a) (x-b) - (x-b)]  $\int_{a}^{b} F(x) = \int_{c}^{b} \frac{f(a)}{2h^{2}} (x-x_{m})(x-b) + f(x_{m}(x-x_{m})(x-b)) + f(b) (x-x_{m})(x-b) = \int_{c}^{b} \frac{f(a)}{2h^{2}} (x-x_{m})(x-b) + f(x_{m}(x-x_{m})(x-b)) + f(x_{m}(x-x_{m})(x-b)) = \int_{c}^{b} \frac{f(a)}{2h^{2}} (x-x_{m})(x-b) + f(x_{m}(x-x_{m})(x-b) + f(x_{m}(x-x_{m})(x-b) = \int_{c}^{b} \frac{f(a)}{2h^{2}} (x-x_{m})(x-x_{m})(x-x_{m})(x-x_{m})(x-x_{m})(x-x_{m$ =  $\frac{f(a)}{2h^2}\left[(x-2)(x-b)^2-(x-b)^3\right] + \frac{f(x_m)}{h^2}\left[(x-a)(x-b)^2-(x-b)^2-(x-b)^3\right] + \frac{f(b)}{2}\left[(x-a)(x-x_m)^2-(x-x_m)^3\right]$ = \frac{f(\alpha)}{2h^2} \left[ (km-a) \frac{(a-b)^2}{2} \frac{(a-b)^3}{6} \right] + \frac{f(\kappa)}{2h^2} \left[ (b-a) \frac{(b-\kappa)}{2} \frac{(b-\kappa)}{6} + \frac{(\kappa-\kappa)}{6} \right] \frac{f(\kappa)}{2h^2} \left[ (b-a) \frac{(b-\kappa)}{2} \frac{(b-\kappa)}{6} + \frac{(\kappa-\kappa)}{6} \right] \frac{f(\kappa)}{2} \left[ (b-a) \frac{(b-\kappa)}{2} \left[ (b-a) \frac{(b-\kappa)}{2} + \frac{(\kappa-\kappa)}{6} \right] \frac{f(\kappa)}{2} \right] \frac{f(\kappa)}{2} \left[ (b-a) \frac{f(\kappa-\kappa)}{2} + \frac{f(\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kappa)}{2} \right] \frac{f(\kappa-\kappa)}{2} \frac{f(\kappa-\kapp 一般,到,大概,和,长领部。 = \( \bigg[ \frac{F(x\_m)}{12} + \frac{F(b)}{12} \right] = \frac{2}{3} \Bigg[ F(a) + 4 F(x\_m) + F(b) \Bigg]