

3  
a

$$P_4(x) = -\frac{1}{6}e^{x_0}(x^3 - 6x^2 + 11x - 6) + \dots$$

$$\dots + \frac{1}{2}e^{x_1}(x^3 - 5x^2 + 6x) + \dots$$

$$\dots - \frac{1}{2}e^{x_2}(x^3 - 4x^2 + 7x) + \dots$$

$$\dots + \frac{1}{6}e^{x_3}(x^3 - 3x^2 + 3x)$$

$$= -\frac{1}{6}e^{x_0}x^3 + e^{x_0}x^2 - \frac{11}{6}e^{x_0}x + e^{x_0} + \dots$$

$$\dots + \frac{1}{2}e^{x_1}x^3 - \frac{5}{2}e^{x_1}x^2 + 3e^{x_1}x + \dots$$

$$\dots - \frac{1}{2}e^{x_2}x^3 + 2e^{x_2}x^2 - 7e^{x_2}x + \dots$$

$$\dots + \frac{1}{6}e^{x_3}x^3 - \frac{1}{2}e^{x_3}x^2 + \frac{1}{2}e^{x_3}x$$