3/a

$$P_4(x) = -\frac{1}{6}e^{x_0}(x^3 - 6x^2 + 11x - 6) + \frac{1}{2}e^{x_1}(x^3 - 5x^2 + 6x) + \cdots$$
$$\cdots - \frac{1}{2}e^{x_2}(x^3 - 4x^2 + 7x) + \frac{1}{6}e^{x_3}(x^3 - 3x^2 + 3x)$$

$$= x^3\left(-\frac{1}{6}e^{x_0} + \frac{1}{2}e^{x_1} - \frac{1}{2}e^{x_2} + \frac{1}{6}e^{x_3}\right) + \cdots$$
$$\cdots + x^2\left(e^{x_0} - \frac{5}{2}e^{x_1} + 2e^{x_2} - \frac{1}{2}e^{x_3}\right) + \cdots$$
$$\cdots + x\left(-\frac{11}{6}e^{x_0} + 3e^{x_1} - \frac{7}{2}e^{x_2} + \frac{1}{2}e^{x_3}\right) + \cdots$$
$$\cdots + e^{x_0}$$

$$P_4(x) \approx -11.18x^3 - 1.060x^2 - 9.497x + 1$$

EITHER THIS $P_4(x)$ OR THE NEXT IN 3b ARE INCORRECT ... OR BOTH... BUT THEY SHOULD BE EQUAL