

3
b

$$p_n(x) = 1 + (e-1)x + (e^2 - e)(x-1) + \dots$$

$$\dots + \frac{(e^4 - e^2)}{2}(x-2)$$

$$= 1 + (e-1)x + e(e-1)(x-1) + \dots$$

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

$$\stackrel{!}{=} -\frac{1}{8}(x-1)(x-2)(x-4) + \dots$$

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

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

$$\dots - \frac{1}{14}e^4 x(x-1)(x-2)$$

... IF THIS IS NOT
TRUE AFTER SIMPLIFICATION
I DID SOMETHING
WRONG

$$f(x) = e^x$$

$$\begin{array}{l} x_0 = 0 \\ x_1 = 1 \\ x_2 = 2 \\ x_3 = 4 \end{array}$$

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LEAVES
38-40