alia : 215314105

Allus.

$$0 \leq (-1)^n \frac{3^n}{2^n n^3}$$

$$: \left| \frac{\alpha_n + 1}{\alpha_n} \right|$$

$$= \frac{(-1)^{n+1}(3)^{n+1}}{(2)^{n+1}(n+1)^{3}}$$

$$= \frac{(-1)^{n}3^{n}}{2^{n}3^{3}}$$

$$\frac{3^{n+1}}{2^{n+1}(n+1)^3} \cdot \frac{2^n 3^n}{3^n}$$

$$= \frac{6^{n} + 2^{n} + 1}{2 + n(^{3} + 3^{n})}$$

2
$$g = e^{-2x} (\cos x) = f(x)$$
 Sampai Scarmy f

= $f(x) = f(x) + \frac{f'(x)}{1!} + \frac{f''(x)}{2!}$

= $f'(x) = e^{-2x} (\sin (x) + 2 (\cos (x)))$

= $f''(x) = e^{-2x} (\sin (x) + 3 (\cos (x)))$

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= $f'''(x) = e^{-2x} (\sin (x) + 3 (\cos (x)))$

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$$= 4x4 - \left(\frac{1}{2} - \frac{1^2}{2}\right)$$

$$= 16 - \left(\frac{5^2}{2} - \frac{1^2}{2}\right)$$