

$$\int (n) = n e^{-\frac{1}{n+1}}$$

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$$\lim_{n \to +\infty} x e^{-\frac{1}{n+1}} = +\infty$$

$$\lim_{n \to -\infty} x e^{-\frac{1}{n+1}} = -\infty$$

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$$\lim_{n \to -\infty} x e^{-\frac{1}{n+1}} = -\infty$$

$$f'(n) = e^{-\frac{1}{1+n}} + n e^{-\frac{1}{1+n}} \cdot \frac{1}{(x+i)^n} = e^{-$$

$$\lim_{n \to \infty} A = \int_{-\infty}^{\infty} -4 \sqrt{n} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} -4 \sqrt{n} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} -4 \sqrt{n} \int_{-\infty}^{\infty} \int_{-$$

$$(n+1)$$
 = $e^{(n+1) \ln (1+n)}$

$$= x + \frac{x^{2}}{2} - \frac{x^{3}}{6} + o(x^{3})$$

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

$$= 1 + n + \frac{n}{1} - \frac{n}{6} + \frac{n^{3}}{1} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac{x^{3}}{1} - \frac{x^{3}}{6} \right)^{2} + \frac{1}{1} \left(x + \frac{x^{3}}{1} - \frac$$

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

$$= 1 + n + n^{2} + o(n^{3})$$

$$= n^{2} = 1 + n^{2} + o(n^{3})$$

 $\frac{(n+1)^{n+1}-e^{n^2}-n}{n^3}=\frac{1}{2}$ n -> + 00