

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

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

$$((n+1) | -(1+n)) = ((n+1)(x - \frac{n}{1} + o(n^{1})))^{2}$$

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

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

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

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

$$\frac{1}{x^{2}} + \frac{x^{2}}{2} + o(x^{2}) = + \frac{1}{2}$$

$$\frac{1}{x^{2}} + o(x^{2}) = + \frac{1}{2}$$

$$f(x) = x \mid n \mid x$$

$$D(f) = \{n > 0\}$$

$$\lim_{n \to 0+} n \mid n^{2} n = \lim_{n \to 0+} \frac{\ln n}{\frac{1}{n}}$$

$$\lim_{n \to 0+} \frac{1 \cdot \ln n}{\frac{1}{n}} = \lim_{n \to 0+} \frac{1}{n}$$

$$\lim_{n \to 0+} \frac{1}{n} = \lim_{n \to 0+} \frac{1}{n}$$

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 $\lim_{n\to\infty} n \ln n = + \infty$

$$f' = \ln^{2} n + 2 \ln n = \frac{1}{n}$$

$$= \ln^{2} n + 2 \ln n = \frac{1}{n}$$

$$= \ln n \cdot (\ln n + 2)$$

$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n}$$

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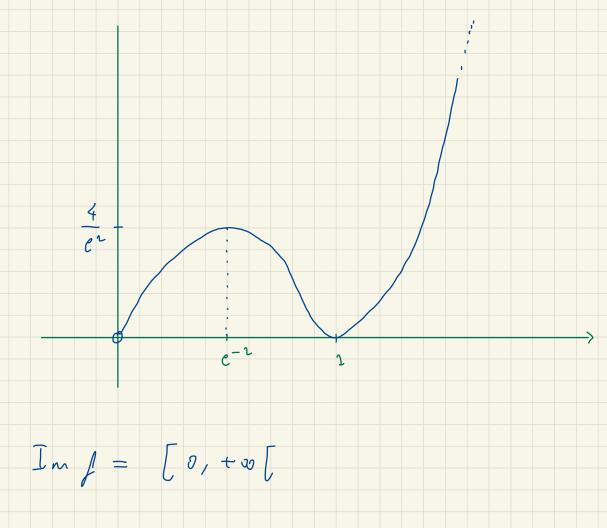
$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n}$$

$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n}$$

$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n} + \frac{1}{n}$$

$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n} + \frac{1}{n} + \frac{1}{n}$$

$$\ln n \cdot 2 \cdot 0 = \frac{1}{n} + \frac{1}{n}$$



 $f(n) = K \qquad h > 1 \qquad \text{solutione} \qquad \text{se}$ $K = 0 \qquad \text{o} \qquad K > \frac{4}{e^2}$

