

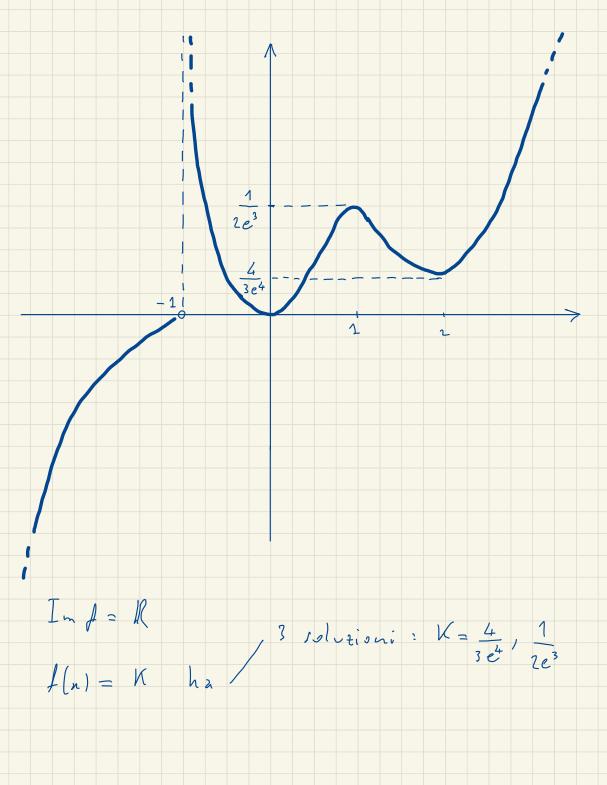
$$f'(n) = \frac{(2n(n+1) - n)}{(n+1)^2} = \frac{6n}{(n+1)^2 - (n)} = \frac{6n}{(n+1)^2}$$

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

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$$f(2) = \frac{4}{3}e^{-4} \quad \text{MIN.} \quad REL.$$



$$= 1 + \left(n - \frac{x^{3}}{7}\right) + \left(\frac{x^{2}}{2} - \frac{x^{4}}{3}\right) + \frac{x^{3}}{6} + \frac{x^{4}}{24} + o\left(x^{4}\right)$$

$$= 1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{6} - \frac{x^{4}}{24} + o\left(x^{4}\right)$$

$$n cosn = n + o(n) = n t = n cosn$$

$$n = 4$$

$$\begin{vmatrix} 1 & (1 + x \cos n) - e & \frac{x^3}{7} + 1 + n^2 \\ e^{x^4} - 1 & e^{x^4} - 1 & \frac{x^4}{7} + \frac{$$

1 I im 
$$f(x) = -\infty$$
 $x \rightarrow -3 + 1$ 
 $f(x) = -3 + 1$ 
 $f(x)$