$$= \frac{x^{4}}{7} + O(x^{6}) - \frac{x^{7}}{7} + O(x^{6}) = \frac{x^{6}}{7} + O(x^{6}) = \frac{x^{7}}{7} + O(x^{6})$$

$$= \frac{x^{6}}{7!} + O(x^{6})$$

$$= \lim_{x \to 0} \frac{x^{6} \left(\frac{1}{2^{3}} + O(x^{2})\right)}{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)} = \frac{\frac{1}{2^{3}}}{\frac{1}{6}} = -\frac{1}{7}$$

$$= \lim_{x \to 0} \frac{x^{6} \left(\frac{1}{2^{3}} + O(x^{2})\right)}{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)} = \frac{\frac{1}{2^{3}}}{\frac{1}{6}} = -\frac{1}{7}$$

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$$= \lim_{x \to 0} \frac{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)}{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)} = \frac{\frac{1}{2^{3}}}{\frac{1}{6}} = -\frac{1}{7}$$

$$= \lim_{x \to 0} \frac{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)}{x^{7} \left(-\frac{1}{6} + O(x^{2})\right)} = \frac{1}{7} + \frac{1}{7$$

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 $\int \frac{e^{x}-1}{x} dx = qo o_i oo 1$

$$\frac{e^{-1}}{x} = \frac{1 + xe^{\frac{x^{2}}{2!} + \frac{xe^{\frac{x^{2}}{2!} + \dots + \frac{x^{k-1}}{k!}}}{x}}{x}$$

$$= 1 + \frac{x}{2!} + \frac{x^{2}}{3!} + \dots + \frac{x^{k-1}}{k!} + \dots + \frac{x^{k-1}}{k!}$$

$$= \int_{0}^{0} \left(+ \frac{x}{2!} + \frac{x^{2}}{3!} + \dots + \frac{x^{k-1}}{k!} + \dots + \frac{x^{k-1}}{k!} \right) dx = \frac{xe^{\frac{k}{2}}}{x^{2}} + \dots + \frac{xe^{\frac{k}{2}}}{x^{$$

$$=\frac{1}{2^{4}y} - \frac{x^{4}}{2^{5}} + \frac{x^{3}}{3^{8}} - \frac{x^{6}}{y^{10}} + \frac{1}{10^{6}} = \frac{4}{2^{4}y} - \frac{1}{2^{5}2^{5}} + \frac{1}{3^{8}3^{8}} - \frac{1}{6y} - \frac{1}{6y} - \frac{3}{6y^{3}} = \frac{3}{6y^$$

Ochasomen mer, young

$$\frac{\sum_{h \geq 1}^{1} \left(\frac{\int_{h+2}^{h+2}}{\int_{h+3}^{h}} \right)^{2}}{\sum_{h \geq 1}^{1} \left(\frac{\int_{h+2}^{h+2}}{\int_{h+3}^{h}} \right)^{2}} = \lim_{h \geq 1} \left(\frac{\int_{h+2}^{h+2}}{\int_{h+3}^{h}} \right)^{2} = \lim_{h \geq 1} \left(\frac{\int_{h+2}^{h+2}}{\int_{h+3}^{h}} \right)^{2} = \lim_{h \geq 1} \left(\frac{h+1}{h} \right)^{h^{2}} = \lim_{h \geq 1} \frac{h^{2}}{h^{2}} = \lim_{h \geq 1} \frac{h^{2}}{h^{2}}$$

$$\sum_{i} \left(-\frac{1}{2}\right)^{i} \int h^{i} \operatorname{aretg} \frac{1}{h^{2}} \cdot \left(x^{-i}\right)^{h}.$$

$$= \frac{1}{2} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty}$$

$$\sum_{n=2}^{\infty} \frac{1}{3^{\frac{n}{2}} n \ln n} (x-i)^n$$

$$\frac{2}{2} \frac{1}{3^{1/2} \cdot h \cdot h \cdot h} = \frac{3^{1/2}}{3^{1/2} \cdot h \cdot h \cdot h} = \frac{3^{1/2}}{2^{1/2} \cdot h} = \frac{3^{1/2}}{2^{1/$$

$$x = 1 - \sqrt{3}$$

$$\frac{1}{3^{\frac{1}{3}} \cdot n \cdot k \cdot n} \left(-\sqrt{3} \cdot \right)^{\frac{1}{3}} = \sum_{n=0}^{\infty} \left(-\sqrt{3} \cdot \right)^{\frac{1}{3}}$$

$$f(x) = \frac{1}{x}, x-2.$$

$$=\frac{1}{2(1+\frac{1}{2})}=\frac{1}{2}\cdot\left(1-\frac{1}{2}+\left(\frac{1}{2}\right)^{2}-\left(\frac{1}{2}\right)^{2}+\dots\right)=$$

$$\frac{2(1+\frac{1}{2})^{2}}{2(1+\frac{1}{2})^{2}} = \frac{1}{2} - \frac{x^{2}}{4} + \frac{(x^{2}-2)^{2}}{8} - \frac{(x^{2}-2)^{3}}{16} + \dots$$