INTEGRALI GENERALIZZATI

$$\int_{1}^{+\infty} dx =$$

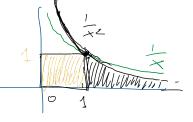
$$=\lim_{t\to+\infty}\int_{1}^{t}\int_{X}^{t}dx=\lim_{t\to+\infty}\int_{1}^{t}\int_{1}^{t}=$$

$$=\lim_{t\to+\infty}\left(\ln\left(|t|-\ln\left(|t|\right)\right)\right)=\left(+\infty\right)$$

$$= \lim_{\varepsilon \to 0^{+}} \int_{\varepsilon}^{1} \frac{1}{x} dx = \lim_{\varepsilon \to 0^{+}} \left[\lim_{\varepsilon \to 0^{+}} |x| \right]_{\varepsilon}^{1} =$$

$$=\lim_{\xi\to 0^+} \left[hg[1] - hg[\xi] \right] = -(-\infty) = (-\infty)$$

$$\int_{1}^{+\infty} dx =$$



$$=\lim_{t\to+\infty} \left[-\frac{1}{x}\right]_{t}^{t} = \lim_{t\to+\infty} \left(-\frac{1}{t} - \left(-\frac{1}{t}\right)\right)$$

$$\left(-\frac{1}{C}-\left(-\frac{1}{I}\right)\right)$$

$$= 0 + 1 = 1$$

$$1 = 1$$

$$\int_{0}^{1} \frac{1}{x^{2}} dx = \lim_{\varepsilon \to 0^{+}} \left[-\frac{L}{x} \right]_{\varepsilon}^{1} =$$

$$\lim_{x \to g^{+}} -1 - \left(-\frac{1}{2}\right) = +\infty$$

$$\lim_{x \to g^{+}} dx = \lim_{x \to g^{+}} \lim_{x \to g^{+}} dx = \lim_{x \to g^{+}} \frac{\left(\frac{\log x}{x}\right)^{1}}{2} = \lim_{x \to g^{+}} \frac{\left(\frac{\log x}{x}\right)^{1}}{2} = \lim_{x \to g^{+}} \frac{\left(\frac{\log x}{x}\right)^{2}}{2} = +\infty$$

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$$\lim_{x \to g^{+}} \frac{\left(\frac{\log x}{x}\right)^{1}}{2} = \lim_{x \to g^{+}} \frac{\left(\frac{\log x}{x}\right)^{1}}{2} = -\frac{1}{x} \lim_{x \to g^{+}} \frac{\left(-\frac{\log x}{x}\right)^{1}}{2$$

$$=\lim_{t\to+\infty}\left(-\frac{\log t}{t}\right)^{\frac{1}{2}}-\frac{1}{\log t}$$

$$=\widehat{\mathbb{I}}$$

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$$= (\log 2)$$

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

$$= (t_{q} \times)^{-\frac{1}{2}+1} = 2 \sqrt{t_{q}} \times \frac{1}{2}$$

$$= \lim_{\xi \to 0^{+}} (2 \sqrt{t_{q}} - 2 \sqrt{t_{q}} + 2 \sqrt{t_{q}})$$

$$= 2 \sqrt{1 - 2 \sqrt{0}} = (2)$$

$$= 2 \sqrt{1 + 1 + 1 + 1}$$

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$$\int \frac{\log x}{(x+1)^{3/2}} dx = \frac{(x+1)^{\frac{3}{2}+1}}{2^{\frac{3}{2}+1}} \log x - \int \frac{2}{\sqrt{(x+1)}} dx$$

$$= -\frac{2 \log x}{(x+1)} + 2 \int \frac{1}{\sqrt{(x+1)}} dx = -\frac{1}{2} \int \frac{1}{\sqrt{(x+1)}} dx = \frac{1}{2} \int \frac{1}{\sqrt{(x+1)}} dx = 2 \int \frac{1}{\sqrt{(x+1)}} dx =$$