$$\int |x-1| dx$$

$$\int_{-\infty}^{\infty} \frac{\log x}{x} dx$$

$$\int_{-\infty}^{\infty} \frac{x - 7\sqrt{x} + 12}{x\sqrt{x} - 6x + 9\sqrt{x}} dx$$

$$\int_{1}^{3} |x - 1| dx$$

$$|X-1| = \begin{cases} X-1 & \text{se } X > 1\\ 1-x & \text{se } X < 1 \end{cases}$$

## SOLUZIONE ALTERNATIVA

$$\log x = f$$

$$\int_{-\infty}^{\infty} \frac{1}{x} = g^{1}$$

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

$$\int_{x}^{2} \frac{\log x}{x} dx = \left[\log^{2} x\right]_{1}^{2} \frac{\log x}{x} dx$$

$$2 \int_{x}^{2} \frac{\log x}{x} dx = \left[\log^{2} x\right]_{1}^{2}$$

$$\int_{x}^{2} \frac{\log x}{x} dx = \frac{1}{2} \left[\log^{2} x\right]_{1}^{2} = \frac{\log^{2} z}{2}$$

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$$\int_{-\infty}^{4} \frac{x - 7\sqrt{x} + 12}{x\sqrt{x} - 6x + 9\sqrt{x}}$$
 olx

$$\int_{x}^{\infty} \frac{x - 7\sqrt{x} + 12}{x(x - 6x + 9)x} dx = \int_{x}^{\infty} \frac{1}{x^{2}} \frac{1}{x^{2}} + 12x dx = 2t dx$$

$$\int_{x}^{2} \frac{1}{x^{2} - 6t^{2} + 9t} dx = \int_{x}^{2} \frac{1}{x^{2}} \frac{1}{x^{2}} + 12x dx = 2\int_{x}^{2} \frac{1}{t^{2} - 6t + 9} dt = 2\int_{x}$$

$$\lim_{Q \to 1^{+}} \int_{Q} \frac{1}{\sqrt{1 + x^{2}}} + \lim_{D \to 1^{+}} \int_{Q} \frac{1}{\sqrt{1 + x^{2}}} dx$$

$$\lim_{Q \to 1^{+}} \left[ \operatorname{arc.8in} X \right]_{Q}^{Q} + \lim_{D \to 1^{+}} \left[ \operatorname{arc.8in} X \right]_{Q}^{Q}$$

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$$\lim_{Q \to 1^{+}} \left[ \operatorname{arc.8in} X \right]_{Q}^{Q} + \lim_{D \to 1^{+}} \int_{Q} \left( x - 1 \right)^{-\frac{2}{3}} dx = 0$$

$$\lim_{Q \to 1^{+}} \int_{Q} \left( x - 1 \right)^{-\frac{2}{3}} dx + \lim_{Q \to 1^{+}} \int_{Q} \left( x - 1 \right)^{-\frac{2}{3}} dx = 0$$

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$$\lim_{Q \to 1^{+}} \int_{Q} \left( x - 1 \right)^{-\frac{2}{3}} dx + \lim_{Q \to 1^{+}} \left[ 3 \left( x - 1 \right)^{-\frac{2}{3}} dx \right] = 0$$

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$$\frac{x}{3} = \text{sent}$$

$$3 = \text{sent}$$

$$4 = \frac{1 - \cos 2t}{2}$$

$$3 = \frac{9}{4} (1 - \cos 2t) \text{ alt} - 3 \cos t = \frac{9}{4} t - \frac{9}{4} \text{ sent} \text{ alt} = \frac{9}{4} t - \frac{9}{4} \text{ sent} \text{ act} + c$$

Se  $x \in [2,3]$ 

$$x = 3 \text{ sent}$$

$$\frac{3}{3} = \text{sent}$$

$$\frac{9}{4} t - \frac{9}{3} t = \frac{15}{3} = \frac{15}{3}$$

$$\frac{3}{3} = \frac{15}{3} = \frac{15$$