

Fri, 10/07/2020 - 09:43



- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$
— $\frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\left[-\frac{1}{x} \right]_{-\infty}^{-\epsilon} + \left[-\frac{1}{x} \right]_{\epsilon}^{\infty} \right)$;
- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$ —
 $\frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\left[-\frac{1}{x} \right]_{-\infty}^{-\epsilon} + \left[-\frac{1}{x} \right]_{\epsilon}^{\infty} \right)$;
- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$ — $\frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$
 $\frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$;
- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$
 $\frac{1}{2} \lim_{\epsilon \rightarrow 0} \left(\int_{-\infty}^{-\epsilon} \frac{1}{x^2} dx + \int_{\epsilon}^{\infty} \frac{1}{x^2} dx \right)$.

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