

- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \left(\lim_{x \rightarrow -\infty} \frac{1}{x} - \lim_{x \rightarrow \infty} \frac{1}{x} \right) = \frac{1}{2} (0 - 0) = 0$.

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