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3. $\int \frac{1}{x^2} dx = \int x^{-2} dx = \frac{x^{-2+1}}{-2+1} + C = \frac{x^{-1}}{-1} + C = -\frac{1}{x} + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

