

(1) $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
 $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$
 $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$
 $\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$
 $\int \frac{1}{x^n} dx = \frac{x^{1-n}}{1-n} + C$ (for $n \neq 1$)
 $\int \frac{1}{x} dx = \ln|x| + C$

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