

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

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

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

$\leq$

$\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$

$\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$

$\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$

$\int \frac{1}{x^7} dx = -\frac{1}{6x^6} + C$

$\int \frac{1}{x^8} dx = -\frac{1}{7x^7} + C$

$\int \frac{1}{x^9} dx = -\frac{1}{8x^8} + C$

$\int \frac{1}{x^{10}} dx = -\frac{1}{9x^9} + C$

$\int \frac{1}{x^{11}} dx = -\frac{1}{10x^{10}} + C$

$A_1 = \frac{1}{11} \ln|x| + C, \sigma = 182;$

$A_2 = \frac{1}{12} \ln|x| + C, \sigma = 179;$

$A_3 = \frac{1}{13} \ln|x| + C, \sigma = 183.$