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15-11-2013 10:22 $\approx \int \frac{1}{x} dx = \ln x + C$ (25) $\frac{1}{x} = x^{-1}$ $\frac{d}{dx} x^{-1} = -x^{-2} = -\frac{1}{x^2}$				
Integration	Derivative	Integration	Derivative	Integration
$\int \frac{1}{x} dx$	$\frac{d}{dx} \ln x $	$\int \frac{1}{x^2} dx$	$\frac{d}{dx} x^{-1}$	$\int \frac{1}{x^3} dx$
$\ln x $	$\frac{1}{x}$	$-\frac{1}{x}$	$-\frac{1}{x^2}$	$-\frac{1}{2x^2}$
$\frac{1}{x}$	$\ln x $	$\frac{1}{x^2}$	$-\frac{1}{x^3}$	$-\frac{1}{2x^2}$
$\frac{1}{x^2}$	$-\frac{1}{x}$	$\frac{1}{x^3}$	$-\frac{1}{2x^2}$	$-\frac{1}{4x^3}$
$\frac{1}{x^3}$	$-\frac{1}{2x^2}$	$\frac{1}{x^4}$	$-\frac{1}{3x^3}$	$-\frac{1}{8x^4}$
$\frac{1}{x^4}$	$-\frac{1}{3x^3}$	$\frac{1}{x^5}$	$-\frac{1}{4x^4}$	$-\frac{1}{16x^5}$
$\frac{1}{x^5}$	$-\frac{1}{4x^4}$	$\frac{1}{x^6}$	$-\frac{1}{5x^5}$	$-\frac{1}{32x^6}$
$\frac{1}{x^6}$	$-\frac{1}{5x^5}$	$\frac{1}{x^7}$	$-\frac{1}{6x^6}$	$-\frac{1}{64x^7}$
$\frac{1}{x^7}$	$-\frac{1}{6x^6}$	$\frac{1}{x^8}$	$-\frac{1}{7x^7}$	$-\frac{1}{512x^8}$
$\frac{1}{x^8}$	$-\frac{1}{7x^7}$	$\frac{1}{x^9}$	$-\frac{1}{8x^8}$	$-\frac{1}{4096x^9}$
$\frac{1}{x^9}$	$-\frac{1}{8x^8}$	$\frac{1}{x^{10}}$	$-\frac{1}{9x^9}$	$-\frac{1}{32768x^{10}}$
$\frac{1}{x^{10}}$	$-\frac{1}{9x^9}$	$\frac{1}{x^{11}}$	$-\frac{1}{10x^{10}}$	$-\frac{1}{262144x^{11}}$
$\frac{1}{x^{11}}$	$-\frac{1}{10x^{10}}$	$\frac{1}{x^{12}}$	$-\frac{1}{11x^{11}}$	$-\frac{1}{2097152x^{12}}$
$\frac{1}{x^{12}}$	$-\frac{1}{11x^{11}}$	$\frac{1}{x^{13}}$	$-\frac{1}{12x^{12}}$	$-\frac{1}{16777216x^{13}}$
$\frac{1}{x^{13}}$	$-\frac{1}{12x^{12}}$	$\frac{1}{x^{14}}$	$-\frac{1}{13x^{13}}$	$-\frac{1}{134217728x^{14}}$
$\frac{1}{x^{14}}$	$-\frac{1}{13x^{13}}$	$\frac{1}{x^{15}}$	$-\frac{1}{14x^{14}}$	$-\frac{1}{1073747840x^{15}}$
$\frac{1}{x^{15}}$	$-\frac{1}{14x^{14}}$	$\frac{1}{x^{16}}$	$-\frac{1}{15x^{15}}$	$-\frac{1}{8589973760x^{16}}$
$\frac{1}{x^{16}}$	$-\frac{1}{15x^{15}}$	$\frac{1}{x^{17}}$	$-\frac{1}{16x^{16}}$	$-\frac{1}{68719790080x^{17}}$
$\frac{1}{x^{17}}$	$-\frac{1}{16x^{16}}$	$\frac{1}{x^{18}}$	$-\frac{1}{17x^{17}}$	$-\frac{1}{549758320640x^{18}}$
$\frac{1}{x^{18}}$	$-\frac{1}{17x^{17}}$	$\frac{1}{x^{19}}$	$-\frac{1}{18x^{18}}$	$-\frac{1}{4398066565120x^{19}}$
$\frac{1}{x^{19}}$	$-\frac{1}{18x^{18}}$	$\frac{1}{x^{20}}$	$-\frac{1}{19x^{19}}$	$-\frac{1}{35184532520960x^{20}}$
$\frac{1}{x^{20}}$	$-\frac{1}{19x^{19}}$	$\frac{1}{x^{21}}$	$-\frac{1}{20x^{20}}$	$-\frac{1}{281476260167936x^{21}}$
$\frac{1}{x^{21}}$	$-\frac{1}{20x^{20}}$	$\frac{1}{x^{22}}$	$-\frac{1}{21x^{21}}$	$-\frac{1}{2251810081343744x^{22}}$
$\frac{1}{x^{22}}$	$-\frac{1}{21x^{21}}$	$\frac{1}{x^{23}}$	$-\frac{1}{22x^{22}}$	$-\frac{1}{18014480650750080x^{23}}$
$\frac{1}{x^{23}}$	$-\frac{1}{22x^{22}}$	$\frac{1}{x^{24}}$	$-\frac{1}{23x^{23}}$	$-\frac{1}{144115845206000640x^{24}}$
$\frac{1}{x^{24}}$	$-\frac{1}{23x^{23}}$	$\frac{1}{x^{25}}$	$-\frac{1}{24x^{24}}$	$-\frac{1}{1152926761648005120x^{25}}$
$\frac{1}{x^{25}}$	$-\frac{1}{24x^{24}}$	$\frac{1}{x^{26}}$	$-\frac{1}{25x^{25}}$	$-\frac{1}{9223414093184040960x^{26}}$
$\frac{1}{x^{26}}$	$-\frac{1}{25x^{25}}$	$\frac{1}{x^{27}}$	$-\frac{1}{26x^{26}}$	$-\frac{1}{73787312745472327680x^{27}}$
$\frac{1}{x^{27}}$	$-\frac{1}{26x^{26}}$	$\frac{1}{x^{28}}$	$-\frac{1}{27x^{27}}$	$-\frac{1}{590298501963778621440x^{28}}$
$\frac{1}{x^{28}}$	$-\frac{1}{27x^{27}}$	$\frac{1}{x^{29}}$	$-\frac{1}{28x^{28}}$	$-\frac{1}{4722388015710229011328x^{29}}$
$\frac{1}{x^{29}}$	$-\frac{1}{28x^{28}}$	$\frac{1}{x^{30}}$	$-\frac{1}{29x^{29}}$	$-\frac{1}{37779104125681752090624x^{30}}$
$\frac{1}{x^{30}}$	$-\frac{1}{29x^{29}}$	$\frac{1}{x^{31}}$	$-\frac{1}{30x^{30}}$	$-\frac{1}{302232833005454016725056x^{31}}$
$\frac{1}{x^{31}}$	$-\frac{1}{30x^{30}}$	$\frac{1}{x^{32}}$	$-\frac{1}{31x^{31}}$	$-\frac{1}{2417862664043632133800448x^{32}}$
$\frac{1}{x^{32}}$	$-\frac{1}{31x^{31}}$	$\frac{1}{x^{33}}$	$-\frac{1}{32x^{32}}$	$-\frac{1}{19342901312349057070403584x^{33}}$
$\frac{1}{x^{33}}$	$-\frac{1}{32x^{32}}$	$\frac{1}{x^{34}}$	$-\frac{1}{33x^{33}}$	$-\frac{1}{15474$