

TABLE OF INTEGRALS

$$[1] \quad \int x^n dx = \frac{1}{n+1} x^{n+1} + c, n \neq -1$$

$$[2] \quad \int \frac{dx}{x} = \ln |x| + c$$

$$[3] \quad \int e^x dx = e^x + c$$

$$[4] \quad \int \sin x dx = -\cos x + c$$

$$[5] \quad \int \cos x dx = \sin x + c$$

$$[6] \quad \int \tan x dx = \ln |\sec x| + c$$

$$[7] \quad \int \sec^2 x dx = \tan x + c$$

$$[8] \quad \int \operatorname{cosec}^2 x dx = -\cot x + c$$

$$[9] \quad \int \sinh x dx = \cosh x + c$$

$$[10] \quad \int \cosh x dx = \sinh x + c$$

$$[11] \quad \int \tanh x dx = \ln(\cosh x) + c$$

$$[12] \quad \int x(ax+b)^n dx = \frac{1}{a^2}(ax+b)^{n+1} \left[\frac{ax+b}{n+2} - \frac{b}{n+1} \right] + c, n \neq -1, -2$$

$$[13] \quad \int \frac{x^2}{ax+b} dx = \frac{1}{a^3} \left[\frac{1}{2}(ax+b)^2 - 2b(ax+b) + b^2 \ln |ax+b| \right] + c$$

$$[14] \quad \int \frac{x^2}{(ax+b)^2} dx = \frac{1}{a^3} \left[ax+b - \frac{b^2}{ax+b} - 2b \ln |ax+b| \right] + c$$

$$[15] \quad \int x\sqrt{ax+b} dx = \frac{2}{a^2} \left[\frac{(ax+b)^{3/2}}{5} - \frac{b(ax+b)^{3/2}}{3} \right] + c$$

$$[16] \quad \int \frac{x}{\sqrt{ax+b}} dx = \frac{2ax-4b}{3a^2} \sqrt{ax+b} + c$$

$$[17] \quad \int \frac{1}{x\sqrt{ax+b}} dx = \frac{1}{\sqrt{b}} \ln \left| \frac{\sqrt{ax+b} - \sqrt{b}}{\sqrt{ax+b} + \sqrt{b}} \right| + c, \quad b > 0$$

$$[18] \quad \int \frac{dx}{\sqrt{a^2-x^2}} = \sin^{-1} \left(\frac{x}{a} \right) + c$$

$$[19] \quad \int \frac{dx}{a^2+x^2} = \frac{1}{a} \tan^{-1} \left(\frac{x}{a} \right) + c$$

$$[20] \quad \int \frac{1}{a^2-x^2} dx = \frac{1}{2a} \ln \left| \frac{x+a}{x-a} \right| + c$$

$$[21] \quad \int \frac{1}{(a^2-x^2)^2} dx = \frac{x}{2a^2(a^2-x^2)} + \frac{1}{4a^3} \ln \left| \frac{x+a}{x-a} \right| + c$$

$$[22] \quad \int \frac{1}{x} \sqrt{a^2-x^2} dx = -\frac{1}{a} \ln \left| \frac{a+\sqrt{a^2-x^2}}{x} \right| + c$$

$$[23] \quad \int \frac{1}{(a^2-x^2)^{3/2}} dx = \frac{1}{a^2} \frac{x}{\sqrt{a^2-x^2}} + c$$

Short Table Of Integrals

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12 $\sinh x$ 7309

$\cosh x$ 7 ex 13 $\sin x$ $i \sinh x$ $\cos x$ $i \cosh x$ 14 $\sin a$ 73 $\sinh x$ $\cos a$ $\cosh x$ 15 $\log u$ $\log cu$ $\log 0$ 16 $\log x$ 2 $\log 90$ 2 k 1 ml

$\log e^z$ $\log x$ 17 $10g x$ y_i $10gr$ 435 x $r \cos q$ $b y$ $r \sin$ $\sin a$ $\sin a$ $\cos b y$ 6008 a $\sinh y$ $\cos a$ $\cos a$ $\cosh y$ 73 $\sin a$ $\sinh y$

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1 a $a b$ 3 $\log a$ $b x$ $\log a$ $b x$ dx 42 $f a$ $b x$ 2 $a b x$ 1 1 b 1 $a b x$ $a b$ $a b$ $a b m$ $a b$ $Og a$ $b x$ $x dx$ 43 $f a$ bit 2 $a b x$ a 10 $a b x$ b $a b$ $a b$ $a b x$ $a b$ $a b g$ $a b x$

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