

1

$$\int cu \, dx$$

2

$$\int (u + v) \, dx$$

3

$$\int x^n \, dx$$

4

$$\int \frac{1}{x} dx$$

5

$$\int e^x \, dx$$

6

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

7

$$\int u \frac{dv}{dx} dx$$

8

$$\int \sin x \, dx$$

9

$$\int \cos x \, dx$$

10

$$\int \tan x \, dx$$

11

$$\int \cot x \, dx$$

12

$$\int \sec x \, dx$$

13

$$\int \csc x \, dx$$

14

$$\int \arcsin \frac{x}{a} dx$$

15

$$\int \arccos \frac{x}{a} dx$$

16

$$\int \arctan \frac{x}{a} dx$$

17

$$\int \sin^2(ax) dx$$

18

$$\int \cos^2(ax) dx$$

19

$$\int \sec^2 x \, dx$$

20

$$\int \csc^2 x \, dx$$

21

$$\int \sin^n x \, dx$$

22

$$\int \cos^n x \, dx$$

23

$$\int \tan^n x \, dx$$

24

$$\int \cot^n x \, dx$$

25

$$\int \sec^n x \, dx$$

26

$$\int \csc^n x \, dx$$

27

$$\int \sinh x \, dx$$

28

$$\int \cosh x \, dx$$

29

$$\int \tanh x \, dx$$

30

$$\int \coth x \, dx$$

31

$$\int \operatorname{sech} x \, dx$$

32

$$\int \operatorname{csch} x \, dx$$

33

$$\int \sinh^2 x \, dx$$

34

$$\int \cosh^2 x \, dx$$

35

$$\int \operatorname{sech}^2 x \, dx$$

36

$$\int \operatorname{arcsinh} \frac{x}{a} dx$$

37

$$\int \operatorname{arctanh} \frac{x}{a} dx$$

38

$$\int \operatorname{arccosh} \frac{x}{a} dx$$

39

$$\int \frac{dx}{\sqrt{a^2 + x^2}}$$

40

$$\int \frac{dx}{a^2 + x^2}$$

41

$$\int \sqrt{a^2 - x^2} \, dx$$

42

$$\int (a^2 - x^2)^{3/2} dx$$

43

$$\int \frac{dx}{\sqrt{a^2 - x^2}}$$

44

$$\int \frac{dx}{a^2 - x^2}$$

45

$$\int \frac{dx}{(a^2 - x^2)^{3/2}}$$

46

$$\int \sqrt{a^2 \pm x^2} \, dx$$

47

$$\int \frac{dx}{\sqrt{x^2 - a^2}}$$

48

$$\int \frac{dx}{ax^2 + bx}$$

49

$$\int x \sqrt{a + bx} \, dx$$

50

$$\int \frac{\sqrt{a + bx}}{x} \, dx$$

51

$$\int \frac{x}{\sqrt{a+bx}} dx$$

52

$$\int \frac{\sqrt{a^2-x^2}}{x} dx$$

53

$$\int x \sqrt{a^2-x^2} dx$$

54

$$\int x^2 \sqrt{a^2-x^2} dx$$

55

$$\int \frac{dx}{\sqrt{a^2-x^2}}$$

56

$$\int \frac{x dx}{\sqrt{a^2-x^2}}$$

57

$$\int \frac{x^2 dx}{\sqrt{a^2-x^2}}$$

58

$$\int \frac{\sqrt{a^2+x^2}}{x} dx$$

59

$$\int \frac{\sqrt{x^2-a^2}}{x} dx$$

60

$$\int x \sqrt{x^2 \pm a^2} dx$$

61

$$\int \frac{dx}{x\sqrt{x^2 + a^2}}$$

62

$$\int \frac{dx}{x\sqrt{x^2 - a^2}}$$

63

$$\int \frac{dx}{x^2\sqrt{x^2 \pm a^2}}$$

64

$$\int \frac{x \, dx}{\sqrt{x^2 \pm a^2}}$$

65

$$\int \frac{\sqrt{x^2 \pm a^2}}{x^4} \, dx$$

66

$$\int \frac{dx}{ax^2 + bx + c}$$

67

$$\int \frac{dx}{\sqrt{ax^2 + bx + c}}$$

68

$$\int \sqrt{ax^2 + bx + c} \, dx$$

69

$$\int \frac{x \, dx}{\sqrt{ax^2 + bx + c}}$$

70

$$\int \frac{dx}{x\sqrt{ax^2 + bx + c}}$$

71

$$\int x^3 \sqrt{x^2 + a^2} \, dx$$

72

$$\int x^n \sin(ax) \, dx$$

73

$$\int x^n \cos(ax) \, dx$$

74

$$\int x^n e^{ax} \, dx$$

75

$$\int x^n \ln(ax) \, dx$$

76

$$\int x^n (\ln ax)^m \, dx$$

$$\int u \, dx + \int v \, dx$$

$$c \int u \, dx$$

$$\ln x$$

$$\frac{1}{n+1}x^{n+1}, \quad n \neq -1$$

$$\arctan x$$

$$e^x$$

$$-\cos x$$

$$uv - \int v \frac{du}{dx} dx$$

$$-\ln |\cos x|$$

$$\sin x$$

$\ln \sec x + \tan x $	$\ln \cos x $
$\arcsin \frac{x}{a} + \sqrt{a^2 - x^2}, \quad a > 0$	$\ln \csc x + \cot x $
$x \arctan \frac{x}{a} - \frac{a}{2} \ln(a^2 + x^2), \quad a > 0$	$\arccos \frac{x}{a} - \sqrt{a^2 - x^2}, \quad a > 0$
$\frac{1}{2a} (ax + \sin(ax) \cos(ax))$	$\frac{1}{2a} (ax - \sin(ax) \cos(ax))$
$-\cot x$	$\tan x$

$\frac{\cos^{n-1} x \sin x}{n} + \frac{n-1}{n} \int \cos^{n-2} x \, dx$	$-\frac{\sin^{n-1} x \cos x}{n} + \frac{n-1}{n} \int \sin^{n-2} x \, dx$
$-\frac{\cot^{n-1} x}{n-1} - \int \cot^{n-2} x \, dx, \quad n \neq 1$	$\frac{\tan^{n-1} x}{n-1} - \int \tan^{n-2} x \, dx, \quad n \neq 1$
$-\frac{\cot x \csc^{n-1} x}{n-1} + \frac{n-2}{n-1} \int \csc^{n-2} x \, dx, \quad n \neq 1$	$\frac{\tan x \sec^{n-1} x}{n-1} + \frac{n-2}{n-1} \int \sec^{n-2} x \, dx, \quad n \neq 1$
$\sinh x$	$\cosh x$
$\ln \sinh x $	$\ln \cosh x $

$\ln \left \tanh \frac{x}{2} \right $	$\arctan \sinh x$
$\frac{1}{4} \sinh(2x) + \frac{1}{2}x$	$\frac{1}{4} \sinh(2x) - \frac{1}{2}x$
$x \operatorname{arcsinh} \frac{x}{a} - \sqrt{x^2 + a^2}, \quad a > 0$	$\tanh x$
$\begin{cases} x \operatorname{arccosh} \frac{x}{a} - \sqrt{x^2 + a^2}, & \text{if } \operatorname{arccosh} \frac{x}{a} > 0 \text{ and } a > 0, \\ x \operatorname{arccosh} \frac{x}{a} + \sqrt{x^2 + a^2}, & \text{if } \operatorname{arccosh} \frac{x}{a} < 0 \text{ and } a > 0, \end{cases}$	$x \operatorname{arctanh} \frac{x}{a} + \frac{a}{2} \ln a^2 - x^2 $
$\frac{1}{a} \arctan \frac{x}{a}, \quad a > 0,$	$\ln \left(x + \sqrt{a^2 + x^2} \right), \quad a > 0,$

$\frac{x}{8}(5a^2 - 2x^2)\sqrt{a^2 - x^2} + \frac{3a^4}{8} \arcsin \frac{x}{a}, \quad a > 0,$	$\frac{x}{2}\sqrt{a^2 - x^2} + \frac{a^2}{2} \arcsin \frac{x}{a}, \quad a > 0,$
$\frac{1}{2a} \ln \left \frac{a+x}{a-x} \right ,$	$\arcsin \frac{x}{a}, \quad a > 0,$
$\frac{x}{2}\sqrt{a^2 \pm x^2} \pm \frac{a^2}{2} \ln \left x + \sqrt{a^2 \pm x^2} \right ,$	$\frac{x}{a^2\sqrt{a^2-x^2}},$
$\frac{1}{a} \ln \left \frac{x}{a+bx} \right ,$	$\ln \left x + \sqrt{x^2 - a^2} \right , \quad a > 0,$
$2\sqrt{a+bx} + a \int \frac{1}{x\sqrt{a+bx}} dx,$	$\frac{2(3bx-2a)(a+bx)^{3/2}}{15b^2},$

$\sqrt{a^2 - x^2} - a \ln \left \frac{a + \sqrt{a^2 - x^2}}{x} \right ,$	$\frac{1}{\sqrt{2}} \ln \left \frac{\sqrt{a+bx} - \sqrt{a}}{\sqrt{a+bx} + \sqrt{a}} \right , \quad a > 0,$
$\frac{x}{8}(2x^2 - a^2)\sqrt{a^2 - x^2} + \frac{a^4}{8} \arcsin \frac{x}{a}, \quad a > 0,$	$-\frac{1}{3}(a^2 - x^2)^{3/2},$
$-\sqrt{a^2 - x^2},$	$-\frac{1}{a} \ln \left \frac{a + \sqrt{a^2 - x^2}}{x} \right ,$
$\sqrt{a^2 + x^2} - a \ln \left \frac{a + \sqrt{a^2 + x^2}}{x} \right ,$	$-\frac{x}{2}\sqrt{a^2 - x^2} + \frac{a^2}{2} \arcsin \frac{x}{a}, \quad a > 0,$
$\frac{1}{3}(x^2 \pm a^2)^{3/2},$	$\sqrt{x^2 - a^2} - a \arccos \frac{a}{ x }, \quad a > 0,$

$\frac{1}{a} \arccos \left \frac{a}{x} \right , \quad a > 0,$	$\frac{1}{a} \ln \left \frac{x}{a + \sqrt{a^2 + x^2}} \right ,$
$\sqrt{x^2 \pm a^2},$	$\mp \frac{\sqrt{x^2 \pm a^2}}{a^2 x},$
$\begin{cases} \frac{1}{\sqrt{b^2 - 4ac}} \ln \left \frac{2ax + b - \sqrt{b^2 - 4ac}}{2ax + b + \sqrt{b^2 - 4ac}} \right , & \text{if } b^2 > 4ac, \\ \frac{2}{\sqrt{4ac - b^2}} \arctan \frac{2ax + b}{\sqrt{4ac - b^2}}, & \text{if } b^2 < 4ac, \end{cases}$	$\mp \frac{(x^2 + a^2)^{3/2}}{3a^2 x^3},$
$\frac{2ax+b}{4a} \sqrt{ax^2 + bx + c} + \frac{4ax-b^2}{8a} \int \frac{dx}{\sqrt{ax^2+bx+c}},$	$\begin{cases} \frac{1}{\sqrt{a}} \ln \left 2ax + b + 2\sqrt{a} \sqrt{ax^2 + bx + c} \right , & \text{if } a > 0, \\ \frac{1}{\sqrt{-a}} \arcsin \frac{-2ax - b}{\sqrt{b^2 - 4ac}}, & \text{if } a < 0, \end{cases}$
$\begin{cases} \frac{-1}{\sqrt{c}} \ln \left \frac{2\sqrt{c}\sqrt{ax^2 + bx + c} + bx + 2c}{x} \right , & \text{if } c > 0, \\ \frac{1}{\sqrt{-c}} \arcsin \frac{bx + 2c}{ x \sqrt{b^2 - 4ac}}, & \text{if } c < 0, \end{cases}$	$\frac{\sqrt{ax^2+bx+c}}{a} - \frac{b}{2a} \int \frac{dx}{\sqrt{ax^2+bx+c}},$

$-\frac{1}{a}x^n \cos(ax) + \frac{n}{a} \int x^{n-1} \cos(ax) \, dx,$	$\left(\frac{1}{3}x^2 - \frac{2}{15}a^2\right)(x^2 + a^2)^{3/2},$
$\frac{x^n e^{ax}}{a} - \frac{n}{a} \int x^{n-1} e^{ax} \, dx,$	$\frac{1}{a}x^n \sin(ax) - \frac{n}{a} \int x^{n-1} \sin(ax) \, dx,$
$\frac{x^{n+1}}{n+1} (\ln ax)^m - \frac{m}{n+1} \int x^n (\ln ax)^{m-1} \, dx.$	$x^{n+1} \left(\frac{\ln(ax)}{n+1} - \frac{1}{(n+1)^2} \right),$