| integral | function | derivative |
|------------------------|----------------------|--|
| | x^n | nx^{n-1} |
| | e^x | e^x |
| $x \ln x - x$ | $\ln x$ | $\frac{1}{x}$ |
| | ln(1+x) | $\frac{\frac{1}{x}}{\frac{1}{1+x}}$ |
| | $\sin x$ | $\cos x$ |
| | $\sin x$ | $\cos x$ |
| | $\sin^- x$ | $\frac{1}{\sqrt{1-x^2}}$ |
| | $\tan^- x$ | $\frac{\sqrt{1-x^2}}{1}$ $\frac{1}{1+x^2}$ |
| | $\tan x$ | $\sec^2 x$ |
| | $\sec x$ | $\sin x \cos^{-2} x = \tan x \sec x$ |
| | $\csc x$ | $\cot x \csc x$ |
| $\ln \sin x $ | $\cot x$ | |
| $\ln \sec x + \tan x $ | $\sec x$ | |
| $2\sqrt{x}$ | $\frac{1}{\sqrt{x}}$ | |

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