Таблиця основних невизначених інтегралів

1	$\int u^{\alpha} du = \frac{u^{\alpha+1}}{\alpha+1} + C$	**10**	$\int \operatorname{ch} u du = \operatorname{sh} u + C$
2	$\int \frac{1}{u} du = \ln\lvert u\rvert + C$	**11**	$\int \frac{1}{\operatorname{ch}^2 u} du = \operatorname{th} u + C$
3	$\int a^u du = \frac{a^u}{\ln a} + C$	**12**	$\int \frac{1}{\operatorname{sh}^2 u} du = -\operatorname{cth} u + C$
4	$\int e^u du = e^u + C$	**13**	$\int \frac{du}{\sqrt{a^2 - u^2}} = \arcsin \frac{u}{a} + C$
5	$\int \sin(au) du = -\frac{1}{a}\cos(au) + C$	**14**	$\int \frac{du}{\sqrt{u^2 \pm a^2}} = \ln\left\lvert u + \sqrt{u^2 \pm a^2}\right\rvert + C$
6	$\int \cos(au) du = \frac{1}{a}\sin(au) + C$	**15**	$\int \frac{du}{a^2 + u^2} = \frac{1}{a}\operatorname{arctg} \frac{u}{a} + C$
7	$\int \frac{1}{\cos^2 u} du = \operatorname{tg} u + C$	**16**	$\int \frac{du}{u^2 - a^2} = \frac{1}{2a} \cdot \ln\left\lvert \frac{u-a}{u+a}\right\rvert + C$
8	$\int \frac{1}{\sin^2 u} du = -\operatorname{ctg} u + C$	**17**	$\int \frac{1}{\cos u} du = \ln\left\lvert \operatorname{tg}\left(\frac{u}{2} + \frac{\pi}{4}\right)\right\rvert + C$
9	$\int \operatorname{sh} u du = \operatorname{ch} u + C$	**18**	$\int \frac{1}{\sin u} du = \ln\left\lvert \operatorname{tg}\left(\frac{u}{2}\right)\right\rvert + C$