

INTEGRAL RULES

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

$$\int \sin x dx = -\cos x + c$$

$$\int \csc^2 x dx = -\cot x + c$$

$$\int a^x dx = \frac{1}{\ln a} a^x + c$$

$$\int \cos x dx = \sin x + c$$

$$\int \sec x \tan x dx = \sec x + c$$

$$\int \frac{1}{x} dx = \ln|x| + c$$

$$\int \sec^2 x dx = \tan x + c$$

$$\int \csc x \cot x dx = -\csc x + c$$

$$\int \frac{dx}{\sqrt{1-x^2}} = \arcsin x + c$$

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