

PODSTAWOWE WZORY NA CAŁKI

$$1. \int a \, dx = ax + C$$

$$2. \int x^n \, dx = \frac{x^{n+1}}{n+1} + C$$

$$3. \int \sin x \, dx = -\cos x + C$$

$$4. \int \cos x \, dx = \sin x + C$$

$$5. \int \frac{1}{\cos^2 x} \, dx = \operatorname{tg} x + C$$

$$6. \int \frac{1}{\sin^2 x} \, dx = -\operatorname{ctg} x + C$$

$$7. \int a^x \, dx = \frac{a^x}{\ln a} + C$$

$$8. \int e^x \, dx = e^x + C$$

$$9. \int \frac{1}{x} \, dx = \ln|x| + C$$

$$10. \int \frac{1}{\sqrt{1-x^2}} \, dx = (\arcsin x) + C$$

$$11. \int \frac{-1}{\sqrt{1-x^2}} \, dx = \arccos x + C$$

$$12. \int \frac{1}{1+x^2} \, dx = \operatorname{arctg} x + C$$

$$13. \int \frac{-1}{1+x^2} \, dx = \operatorname{arcctg} x + C$$

$$\int a f(x) \, dx = a \int f(x) \, dx$$

$$\int [f(x) + g(x)] \, dx = \int f(x) \, dx + \int g(x) \, dx$$