

INTEGRALI FONDAMENTALI

$$\int 1 dx = x + c$$

$$\int \frac{f(x)'}{1+f^2(x)} dx = \arctan x + c$$

$$\int x^\alpha dx = \frac{x^{\alpha+1}}{\alpha+1}$$

$$\alpha \neq -1$$

$$\int \frac{f(x)'}{\sqrt{1+f^2(x)}} dx = \arccos x + c$$

$$\int x^\alpha dx = \ln |x| + c$$

$$\alpha = -1$$

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

$$\int f'(x) \cdot \sin f(x) dx = -\cos f(x) + c \quad \int f'(x) \cdot b^{f(x)} dx = \frac{b^{f(x)}}{\ln b} + c$$

$$\int f'(x) \cdot \cos f(x) dx = \sin f(x) + c \quad \int f'(x) \cdot e^{f(x)} dx = e^{f(x)} + c$$

$$\int \frac{f'(x)}{\cos^2 f(x)} dx = \tan f(x) + c$$

$$\int f'(x) \cdot f(x) dx = \frac{f^{\alpha+1}(x)}{\alpha+1} + c$$

$$\int \frac{f'(x)}{f(x)} dx = \ln |f(x)| + c$$