

SELEZIONE DI ESERCIZI

Dal lavoro di gruppo sugli integrali del 27 novembre 2009

$$\int \frac{3x^2 + \cos x}{x^3 + \sin x - 5} dx$$

$$\int \frac{1 + \operatorname{tg}^2 x + 4x^3 + e^x}{\operatorname{tg} x + x^4 + e^x} dx$$

$$\int \operatorname{tg}^2 x (1 + \operatorname{tg}^2 x) dx$$

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

$$\int \operatorname{ctg} x dx$$

$$\int \left(\frac{x^3}{3} + 4\right)^2 x^2 dx$$

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

$$\int \frac{-\sin x \log x + \frac{\cos x}{x}}{\cos x \log x} dx$$

$$\int -\sin x \log x dx$$

$$\int \frac{1}{\frac{\cos^2 x}{\operatorname{tg} x}} dx$$

$$\int (\ar \cos x)^3 \left(-\frac{1}{\sqrt{1-x^2}}\right) dx$$

$$\int \frac{\cos x^2 \cdot 2x}{\sin x^2} dx$$

$$\int \operatorname{tg}^2 x \frac{1}{\cos^2 x} dx$$

$$\int x \sin x dx$$

$$\int \frac{1}{x \log x} dx$$

$$\int (x^3 + x^2 + 1)^3 (3x^2 + 2x) dx$$

$$\int \frac{\cos x}{\sin x} dx$$

$$\int \arccos^2 x \left(-\frac{1}{\sqrt{1-x^2}} \right) dx$$

$$\int -\sin x^2 \cdot 2x dx$$

$$\int \frac{1}{x} \frac{1}{\log x} dx$$

$$\int e^x \cos x dx$$

$$\int \frac{3x^2 + 2}{x^3 + 2x + 5} dx$$

$$\int (x^4 + x^3 + \log x)^3 \left(4x^3 + 3x^2 + \frac{1}{x} \right) dx$$

$$\int \sqrt{\log x} \cdot \frac{1}{x} dx$$

$$\int \log^2(\arctan x) \cdot \frac{1}{\arctan x} \cdot \frac{1}{1+x^2} dx$$

$$\int \frac{\cos x}{[\arctan(\sin x)](1 + \sin^2 x)} dx$$

$$\int \frac{1}{\sqrt{1 - \log^2 x}} \cdot \frac{1}{x} dx$$

$$\int \arcsin x dx$$

$$\int 40 \cos x \sin x dx$$

$$\int (\arcsin(x+1))^\pi \frac{1}{\sqrt{1-(x+1)^2}} dx$$

$$\int 2 \arctan x dx$$

$$\int \frac{e^{tgx}}{\cos^2 x} dx$$

$$\int \frac{1 + tg^2 x}{tgx} dx$$

$$\int \frac{2 \arctan x}{(1 + x^2)^2} dx$$

$$\int e^x (x^2 + 6x + 3) dx$$

$$\int e^{10x} dx$$

$$\int \frac{1}{\sin x} \cdot \cos x dx$$