

**Tutorato 15.11.2019**

**Esercizio 1:** Calcolare i seguenti integrali:

$$\int \sqrt{2x+5} \, dx$$

$$\int \frac{x}{\sqrt{(x^2+5)^3}} \, dx$$

$$\int \frac{3e^x}{1+e^{2x}} \, dx$$

$$\int \tan(x) \, dx$$

$$\int \frac{1}{\sin(2x)} \, dx$$

$$\int 7x \cos(3x^2 - 5) \, dx$$

$$\int \frac{x}{\cos^2(3x^2+5)} \, dx$$

$$\int x \sin(x) \, dx$$

$$\int x \log x \, dx$$

$$\int x^2 e^{-x} \, dx$$

$$\int 2x \log(x+1) \, dx$$

$$\int 2x \operatorname{arctg}(x) \, dx$$

$$\int e^x \sin(x) \, dx$$

$$\int \sqrt{1-x^2} \, dx$$

$$\int \frac{x-3}{(x+1)(x+2)} \, dx$$

$$\int \frac{3x+2}{x(x^2-1)} \, dx$$

$$\int \frac{3x-4}{x^2-6x+8} \, dx$$

$$\int \frac{x^3+2}{x^2-1} \, dx$$

$$\int \frac{e^x}{e^{2x}-3e^x+2} \, dx$$

$$\int \frac{1}{4 \sin x + 3 \cos x} \, dx$$