

15 Integrali

a) Risolvere i seguenti integrali

$$\int (nx)^{\frac{1-n}{n}} dx \quad (88)$$

$$\int \frac{(x^2 + 1)(x^2 - 2)}{\sqrt[3]{x^2}} dx \quad (89)$$

$$\int \frac{2x + 3}{2x + 1} dx \quad (90)$$

$$\int \frac{x}{(x + 1)^2} dx \quad (91)$$

$$\int \frac{e^x}{e^x - 1} dx \quad (92)$$

$$\int x 7^{x^2} dx \quad (93)$$

$$\int \frac{\sin(\log x)}{x} dx \quad (94)$$

$$\int \frac{1}{\sin^2 x \cos^2 x} dx \quad (95)$$

$$\int \frac{1}{x\sqrt{1+x^2}} dx \quad (96)$$

$$\int s \sin x \cos x dx \quad (97)$$

$$\int \log^2 x dx \tag{98}$$

$$\int \frac{1}{\sin x} dx \tag{99}$$

$$\int x^2 \sin x dx \tag{100}$$

$$\int \frac{\log(1+x)}{x^2} dx \tag{101}$$

$$\int \log(1+x^3)^{x^2} dx \tag{102}$$

$$\int \frac{3x+1}{x^2-6x+5} dx \tag{103}$$

$$\int \frac{x+2}{x^2+2} dx \tag{104}$$

$$\int \frac{\sqrt{x}}{2+\sqrt{x}} dx \tag{105}$$

$$\int \sqrt{2^x-1} dx \tag{106}$$

$$\int \frac{x^2+1}{x-1} dx \tag{107}$$

$$\int 2e^{\sin^2 x} \frac{\sin x}{\sec x} dx \tag{108}$$