

integrali 2

1. 1.

Calcolare

$$\int_0^1 \frac{e^x - 1}{(1 + e^{x-1})^2} dx$$

- $\ln \frac{2}{1+e} + \frac{e-1}{2}$ ✓
- 0
- $\frac{\ln 2}{1-e} + 1$
- $\ln \frac{1-e}{1+e} - \frac{1}{e}$

2. 2.

Calcolare

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1 + \sin^2(x)}{\sin(x) \cos(x)} dx$$

- $\frac{3}{2} \ln 3$ ✓
- 0
- $2 \ln 2$
- $\frac{\pi}{3} - \ln 2$

3. 3.

Calcolare

$$\int_0^{\frac{\pi}{3}} \frac{1}{\cos x} dx$$

- $\ln \frac{\sqrt{3}+1}{\sqrt{3}-1}$ ✓
- 0
- $\frac{\ln(1+\sqrt{3})}{\ln(1-\sqrt{3})}$
- $\ln \frac{1}{\sqrt{3}-1}$