

Tema: Integración

Calcular las siguientes integrales

1.  $\int \frac{\ln(\ln(x))}{x \ln(x)} dx$

2.  $\int \frac{2dx}{e^x - e^{-x}}$

3.  $\int \sqrt{1 - a^x} dx; \quad a > 0$

4.  $\int \frac{x \ln(x + \sqrt{1 + x^2})}{\sqrt{1 + x^2}}$

5.  $\int \frac{dx}{\sin x + \cos x}$

6.  $\int \frac{1}{x^4 + 1}$

7.  $\int \frac{xdx}{\sqrt{1 + \sqrt[3]{x^2}}}$

8.  $\int \sin(5 \ln x) dx$

9.  $\int \sqrt{2x + x^2} dx$

10.  $\int \frac{xdx}{(x - 2)(x^2 - 4x + 5)^2}$

11.  $\int \frac{2tdt}{(1 - t)^{2/3}}$

12.  $\int \frac{\sqrt{2 + x} + 1}{3 + \sqrt{2 + x}} dx$

13.  $\int \tan^4 \sec^3 dx$