

Tercer concurso de Integrales
Universidad Pontificia Bolivariana
2018

Integral No. 1

$$\int r(\sqrt[3]{r+1})dr$$

Tiempo = 3 min

Integral No. 2

$$\int \left[\cot(z) + \frac{1}{z} - \operatorname{sen}(z)e^{\cos(z)} \right] dz$$

Tiempo = 3 min

Integral No. 3

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

Tiempo = 3 min

Integral No. 4

$$\int \frac{dx}{\sqrt{x}(\sqrt{x} + \sqrt{a})}$$

$$x > 0, a \geq 0$$

Tiempo = 3 min

Integral No. 5

$$\int \frac{e^x + 1}{e^{x-1}} dx$$

Tiempo = 3 min

Integral No. 6

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

Tiempo = 3min

Integral No. 7

$$\int \frac{x^2}{(3x - 5)^2} dx$$

Tiempo = 4 min

Integral No. 8

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

Tiempo = 4 min

Integral No. 9

$$\int \frac{dx}{\sqrt{9 + 16x - 4x^2}}$$

Tiempo = 4 min

Integral No. 10

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

Tiempo = 4 min

Integral No. 11

$$\int \frac{\sec(t) \tan(t)}{\sec^2(t) - \sec(t)} dt$$

Tiempo = 5min

Integral No. 12

$$\int x^5 e^{x^2} dx$$

Tiempo = 5min

Integral No. 13

$$\int \frac{1}{w\sqrt{4-2w}} dw$$

Tiempo = 5 min

Integral No. 14

$$\int (1 + \ln x) \sqrt{1 + (x \ln x)^2} dx$$

Tiempo = 5 min

Integral No. 15

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

Tiempo = 4 min