

Hallar la integral indefinida de las siguientes funciones:

1.

$$\int x \tan^2(x) dx$$

2.

$$\int \tan^3(x) \sec^4(x) dx$$

3.

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

4.

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

5.

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

6.

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

7.

$$\int \frac{\sin^2(x) \cos^5(x)}{\tan^3(x)} dx$$

8.

$$\int \frac{\sin(x) - \cos(x)}{\sin(x) + \cos(x)} dx$$

9.

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

10.

$$\int \frac{1}{\cos^4(x)} dx$$

11.

$$\int \sin^2 x dx$$

12.

$$\int \sin^4 x dx$$

13.

$$\int \cos^2 x dx$$

14.

$$\int \cos^6 x dx$$

15.

$$\int \sin^2 x \cos^2 x dx$$

16.

$$\int \frac{dx}{3 + \sqrt{2x+5}}$$

17.

$$\int \sqrt{\frac{x-1}{x+1}} dx$$

18.

$$\int \arctan \sqrt[3]{x} dx$$

19.

$$\int \sqrt{\sqrt{x} + 1} dx$$

20.

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

21.

$$\int \sqrt{2+e^x} dx$$

22.

$$\int e^{\sin x} \cos^2 x dx$$

23.

$$\int \sin^5 x dx$$

24.

$$\int \cos^3 x \sin^2 x dx$$

25.

$$\int \tan^2 x dx$$

26.

$$\int \tan^3 x dx$$

27.

$$\int x^3 \sqrt{1-x^2} dx$$

28.

$$\int \frac{\sin x + 3 \cos x}{\sin x \cos x + 2 \sin x} dx$$

29.

$$\int \frac{\sin x + 3 \cos x}{\sin x + 2 \cos x} dx$$

30.

$$\int \tan^2(3x) \sec^3(3x) dx$$

31.

$$\int \frac{4x^3 - x^3 - 46x^2 - 20x + 153}{x^3 - 2x^2 - 9x + 18} dx$$

32.

$$\int \cos(\log x) dx$$

33.

$$\int \frac{e^{4x}}{e^{2x} + e^x + 2} dx$$

34.

$$\int \frac{\sqrt{1 + \sqrt[3]{x}}}{\sqrt[3]{x}} dx$$

35.

$$\int \frac{x^2}{(x^2 + 1)^{5/2}} dx$$

36.

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

37.

$$\int \frac{dx}{\cos^2(x)}$$

38.

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

39.

$$\int \frac{x}{(x^2 + 1)^{5/2}} dx$$

40. $\int x^2(1-x^2)^{-3/2} dx$
41. $\int \sqrt{e^x - 1} dx$
42. $\int \frac{2x^2 + 3}{x^2(x-1)} dx$
43. $\int \frac{1 + \sqrt{1-\sqrt{x}}}{\sqrt{x}} dx$
44. $\int \frac{1 + \sin x}{1 + \cos x} dx$
45. $\int x^2 \sqrt{x-1} dx$
46. $\int \sec^6(x) dx$
47. $\int \frac{x^3}{(1+x^2)^3} dx$
48. $\int \frac{dx}{e^x - 4e^{-x}}$
49. $\int \frac{dx}{(2+x)\sqrt{1+x}}$
50. $\int \frac{dx}{1 + \sqrt[3]{1-x}}$
51. $\int e^x \cos(2x) dx$
52. $\int x^2 \log(x) dx$
53. $\int \sin^3 x \cos^2 x dx$
54. $\int \cos^4 x dx$
55. $\int \tan^4 x dx$
56. $\int \sec^3 x dx$
57. $\int \frac{dx}{1 - \sin x}$
58. $\int \sin(\log x) dx$
59. $\int \frac{dx}{x^2\sqrt{1-x^2}}$
60. $\int \frac{x}{\sqrt{1+x^2}} dx$
61. $\int \frac{dx}{\sqrt{e^{2x}-1}}$
62. $\int \frac{e^{4x}}{e^{2x}+2e^x+2} dx$
63. $\int \frac{x^5 - 2x^3}{x^4 - 2x^2 + 1} dx$
64. $\int \frac{dx}{\sqrt[3]{(1-2x)^2} - \sqrt{1-2x}}$
65. $\int \frac{dx}{x^2\sqrt{9-x^2}}$
66. $\int \frac{dx}{(x-1)^2(x^2+x+1)}$
67. $\int x^m \log x dx$
68. $\int \frac{\cos^3 x}{\sin^4 x} dx$
69. $\int x^2 \sin \sqrt{x^3} dx$
70. $\int \cos^2(\log x) dx$
71. $\int (\log x)^3 dx$
72. $\int x(\log x)^2 dx$