

Ejercicios. Resolver las siguientes integrales indefinidas, según los casos de los métodos más adecuados para su solución

1. $\int \frac{dx}{x^2 - 4}$
2. $\int \frac{5x - 1}{x^2 - 1} dx$
3. $\int \frac{4w - 11}{2w^2 + 7w - 4} dw$
4. $\int \frac{4x - 2}{x^3 - x^2 - 2x} dx$
5. $\int \frac{x^2}{x^2 + x - 6} dx$
6. $\int \frac{9t^2 - 26t - 5}{3t^2 - 5t - 2} dt$
7. $\int \frac{dt}{(t + 2)^2(t + 1)}$
8. $\int \frac{3x^2 - x + 1}{x^3 - x^2} dx$
9. $\int \frac{dx}{x^3 + 3x^2}$
10. $\int \frac{w^2 + 4w - 1}{w^3 - w} dw$
11. $\int \frac{6x^2 - 2x - 1}{4x^3 - x} dx$
12. $\int \frac{dx}{2x^3 + x}$
13. $\int \frac{x + 4}{x^3 + 4x} dx$
14. $\int \frac{3t}{2t^4 + 5t^2 + 2} dt$
15. $\int \frac{dx}{16x^4 - 1}$
16. $\int \frac{dx}{9x^4 + x^2}$
17. $\int \frac{x^2 + x}{x^3 - x^2 + x - 1} dx$
18. $\int \frac{2x^2 + 3x + 2}{x^3 + 4x^2 + 6x + 4} dx$
19. $\int \frac{\sec^2 t (\sec^2 t + 1)}{\tan^3 t + 1} dt$
20. $\int \frac{e^{5x}}{(e^{2x} + 1)^2} dx$
21. $\int_1^2 \frac{x - 3}{x^3 + x^2} dx$
22. $\int_0^4 \frac{x + 4}{2x^2 + 5x + 2} dx$
23. $\int_1^3 \frac{x^2 - 4x + 3}{x^3 + 2x^2 + x} dx$
24. $\int_1^4 \frac{2x^2 + 13x + 18}{x^3 + 6x^2 + 9x} dx$
25. $\int_1^4 \frac{4 + 5x^2}{4x + x^3} dx$
26. $\int_0^1 \frac{x dx}{x^3 + 2x^2 + x + 2}$
1. $\int \frac{x}{3 + \sqrt{x}} dx$
2. $\int \frac{dx}{\sqrt[3]{x} - x}$
3. $\int \frac{dx}{x\sqrt{1 + 4x}}$
4. $\int x(1 + x)^{2/3} dx$
5. $\int \frac{2x^5 + 3x^2}{\sqrt{1 + 2x^3}} dx$
6. $\int \frac{dx}{2\sqrt[3]{x} + \sqrt{x}}$
7. $\int \frac{8}{3 \cos 2x + 1} dx$
8. $\int \frac{\cos x}{3 \cos x - 5} dx$
9. $\int \frac{3}{8 + 7 \cos x} dx$
10. $\int \frac{dx}{1 + \sin x}$
11. $\int \frac{dx}{4 \sin x - 3 \cos x}$
12. $\int \frac{dx}{\sin x + \tan x}$
13. $\int_0^4 \frac{dx}{1 + \sqrt{x}}$
14. $\int_0^1 \frac{x^{3/2}}{x + 1} dx$
15. $\int_0^{\pi/2} \frac{dx}{5 \sin x + 3}$
16. $\int_0^{\pi/2} \frac{dx}{3 + \cos 2x}$
17. $\int_{\pi/6}^{\pi/3} \frac{3 dx}{2 \sin 2x + 1}$
18. $\int_0^{\pi/4} \frac{8 dx}{\tan x + 1}$
19. $\int_{-\pi/3}^{\pi/2} \frac{3 dx}{2 \cos x + 1}$
20. $\int_0^{\pi/2} \frac{\sin 2x dx}{2 + \cos x}$
21. $\int_0^1 \frac{\sqrt{x}}{1 + \sqrt[3]{x}} dx$
22. $\int_2^{11} \frac{x^3 dx}{\sqrt[3]{x^2 + 4}}$