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.
$$\int \frac{5x-1}{x^2-1} dx$$

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

$$2. \int \frac{dx}{\sqrt[3]{x-x}}$$

3.
$$\int \frac{4w - 11}{2w^2 + 7w - 4} dw$$

4.
$$\int \frac{4x-2}{x^3-x^2-2x} dx$$

$$3. \int \frac{dx}{x\sqrt{1+4x}}$$

4.
$$\int x(1+x)^{2/3} dx$$

5.
$$\int \frac{x^2}{x^2 + x - 6} dx$$

3.
$$\int \frac{4w - 11}{2w^2 + 7w - 4} dw$$
4.
$$\int \frac{4x - 2}{x^3 - x^2 - 2x} dx$$
3.
$$\int \frac{dx}{x\sqrt{1 + 4x}}$$
4.
$$\int x(1 + x)^{2/3} dx$$
5.
$$\int \frac{x^2}{x^2 + x - 6} dx$$
6.
$$\int \frac{9t^2 - 26t - 5}{3t^2 - 5t - 2} dt$$
5.
$$\int \frac{2x^5 + 3x^2}{\sqrt{1 + 2x^3}} dx$$
6.
$$\int \frac{dx}{2\sqrt[3]{x} + \sqrt{x}}$$

$$5. \int \frac{2x^5 + 3x^2}{\sqrt{1 + 2x^3}} dx$$

$$6. \int \frac{dx}{2\sqrt[3]{x} + \sqrt{x}}$$

$$7. \int \frac{dt}{(t+2)^2(t+1)}$$

$$8. \int \frac{3x^2 - x + 1}{x^3 - x^2} dx$$

$$7. \int \frac{8}{3\cos 2x + 1} dx$$

7.
$$\int \frac{dt}{(t+2)^2(t+1)}$$
 8.
$$\int \frac{3x^2 - x + 1}{x^3 - x^2} dx$$
 7.
$$\int \frac{8}{3\cos 2x + 1} dx$$
 8.
$$\int \frac{\cos x}{3\cos x - 5} dx$$

$$9. \int \frac{dx}{x^3 + 3x^2}$$

$$10. \int \frac{w^2 + 4w - 1}{w^3 - w} dw$$

9.
$$\int \frac{dx}{x^3 + 3x^2}$$
 10. $\int \frac{w^2 + 4w - 1}{w^3 - w} dw$ 9. $\int \frac{3}{8 + 7\cos x} dx$ 10. $\int \frac{dx}{1 + \sin x}$

$$10. \int \frac{dx}{1 + \sin x}$$

11.
$$\int \frac{6x^2 - 2x - 1}{4x^3 - x} dx$$

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

11.
$$\int \frac{6x^2 - 2x - 1}{4x^3 - x} dx$$
 12.
$$\int \frac{dx}{2x^3 + x}$$
 11.
$$\int \frac{dx}{4 \sin x - 3 \cos x}$$
 12.
$$\int \frac{dx}{\sin x + \tan x}$$

$$12. \int \frac{dx}{\sin x + \tan x}$$

$$13. \int \frac{x+4}{x^3+4x} dx$$

$$14. \int \frac{3t}{2t^4 + 5t^2 + 2} dt$$

$$13. \int_0^4 \frac{dx}{1+\sqrt{x}}$$

13.
$$\int \frac{x+4}{x^3+4x} dx$$
 14. $\int \frac{3t}{2t^4+5t^2+2} dt$ 13. $\int_0^4 \frac{dx}{1+\sqrt{x}}$ 14. $\int_0^1 \frac{x^{3/2}}{x+1} dx$

$$15. \int \frac{dx}{16x^4 - 1}$$

15.
$$\int \frac{dx}{16x^4 - 1}$$
 16.
$$\int \frac{dx}{9x^4 + x^2}$$

17.
$$\int_0^{\pi/2} \frac{dx}{5 \sin x + 3}$$

17.
$$\int_0^{\pi/2} \frac{dx}{5 \sin x + 3}$$
 18.
$$\int_0^{\pi/2} \frac{dx}{3 + \cos 2x}$$

17.
$$\int \frac{x^2 + x}{x^3 - x^2 + x - 1} dx$$

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.
$$\int_{-\pi/3}^{2} \frac{3 dx}{2 \cos x + 1}$$
22.
$$\int_{0}^{\pi/2} \frac{\sin 2x}{3 + \cos 2x} dx$$
21.
$$\int_{-\pi/3}^{2} \frac{3 dx}{2 \cos x + 1}$$
22.
$$\int_{0}^{\pi/2} \frac{\sin 2x}{2 + \cos x} dx$$

19.
$$\int_{\pi/6}^{\pi/3} \frac{3 \ dx}{2 \sin 2x + 1}$$

$$20. \int_0^{\pi/4} \frac{8 \ dx}{\tan x + 1}$$

$$\int \frac{1}{\tan^3 t + 1} dt$$

22.
$$\int_{0}^{4} \frac{x+4}{2x^{2}+5x+2} dx$$

21.
$$\int_{-\pi/3}^{\pi/2} \frac{3 \ dx}{2 \cos x + 1}$$

22.
$$\int_0^{\pi/2} \frac{\sin 2x \, dx}{2 + \cos x}$$

21.
$$\int_{1}^{2} \frac{x-3}{x^3+x^2} dx$$

21.
$$\int_{-\pi/3}^{2} \frac{3 dx}{2 \cos x + 1}$$
22.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x}$$
23.
$$\int_{1}^{3} \frac{x^{2} - 4x + 3}{x^{3} + 2x^{2} + x} dx$$
24.
$$\int_{2}^{4} \frac{x + 4}{2x^{2} + 5x + 2} dx$$
25.
$$\int_{0}^{4} \frac{\sin 2x}{2 \cos x + 1}$$
26.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
27.
$$\int_{0}^{4} \frac{\sin 2x}{2 \cos x + 1}$$
28.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
29.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
21.
$$\int_{-\pi/3}^{4} \frac{3 dx}{2 \cos x + 1}$$
22.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
23.
$$\int_{0}^{4} \frac{x^{2} - 4x + 3}{1 + \sqrt[3]{x}} dx$$
24.
$$\int_{2}^{4} \frac{x^{3} dx}{\sqrt[3]{x^{2} + 4}} dx$$
25.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
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$$\int_{0}^{4} \frac{x^{2} - 4x + 3}{\sqrt[3]{x^{2} + 4}} dx$$
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23.
$$\int_{0}^{4} \frac{x^{2} - 4x + 3}{\sqrt[3]{x^{2} + 4}} dx$$
24.
$$\int_{0}^{4} \frac{2x^{2} + 13x + 18}{\sqrt[3]{x^{2} + 4}} dx$$
25.
$$\int_{0}^{4} \frac{\sin 2x}{2 + \cos x} dx$$
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23.
$$\int_{0}^{1} \frac{\sqrt{x}}{1 + \sqrt[3]{x}} dx$$

24.
$$\int_{2}^{11} \frac{x^3 dx}{\sqrt[3]{x^2 + 4}}$$

25.
$$\int_{1}^{4} \frac{4+5x^{2}}{4x+x^{3}} dx$$

25.
$$\int_{1}^{4} \frac{4+5x^{2}}{4x+x^{3}} dx$$
 26.
$$\int_{0}^{1} \frac{x dx}{x^{3}+2x^{2}+x+2}$$