

INTEGRAL	SOLUCIÓ
1. $\int_0^{\pi/6} \frac{18 \cos x}{(1 + \sin x)^3} dx$	5
2. $\int_e^{e^2} \frac{\ln x \cdot \ln(\ln x)}{x} dx$	$2 \ln 2 - \frac{3}{4}$
3. $\int_0^{\pi/2} (\sin(2x))^3 \cos x dx$	$\frac{16}{35}$
4. $\int_1^2 (x - 5)^2 (x - 1)^7 dx$	$\frac{109}{90}$
5. $\int_0^1 \sqrt[4]{x^3 \sqrt{x \sqrt{x}}} dx$	$\frac{8}{11}$
6. $\int_{-1/2}^{1/2} \frac{dx}{1 - x^2}$	$\ln(3)$
7. $\int_0^{\ln(5)} \frac{e^x \sqrt{e^x - 1}}{e^x + 3} dx$	$4 - \pi$
8. $\int_{-1}^1 \frac{dx}{(1 + x^2)^2}$	$\frac{\pi}{4} + \frac{1}{2}$

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9. $\int_0^1 \frac{x^3}{1+x^8} dx$	$\frac{\pi}{16}$
10. $\int_{-2}^2 (x-2)x(x+2) dx$	8
11. $\int_1^2 \ln(x^2+1) dx$	$\ln\left(\frac{25}{2}\right) + 2 \arctan(2) - 2 - \frac{\pi}{2}$
12. $\int_1^e \ln x dx$	1
13. $\int_0^1 x(1-x)^{2024} dx$	$\frac{1}{2025 \cdot 2026}$
14. $\int_0^4 \frac{dx}{1+\sqrt{x}}$	$4 - 2 \ln(3)$
15. $\int_0^2 x^2 \sqrt{4-x^2} dx$	π