

**Problemas de integrales**  
**2º de Bachillerato 2017**

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Resuelve las siguientes integrales

1.  $\int (5x^2 + 8)^2(x)dx$

2.  $\int 4x^2(5x^3 - 4)^{11}dx$

3.  $\int e^x(e^x + 5)^8 dx$

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

5.  $\int \frac{5x}{x^2 + 9} dx$

6.  $\int \frac{3 \sin 2x}{\cos^2 x + 5} dx$

7.  $\int \frac{4e^x}{5e^x + 1} dx$

8.  $\int \frac{8x}{\cos^2(5x^2)} dx$

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

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

11.  $\int \frac{\ln(x + 1)}{x + 1} dx$

12.  $\int \frac{7x^2 + 2x\sqrt{x} - 1}{x} dx$

13.  $\int \frac{5x \sin x + xe^x - 1}{x} dx$

14.  $\int \frac{3x^3 + 2\sqrt{x} - 3}{x^2} dx$

15.  $\int \frac{x}{\sin^2(x^2 - 1)} dx$

16.  $\int \frac{x}{\sqrt{1 - 4x^2}} dx$

$$17. \int \frac{x^2 + 1}{5x} dx$$

$$18. \int x^2 e^{2x} dx$$

$$19. \int (x + 1)e^x dx$$

$$20. \int x \ln(x + 1) dx$$

$$21. \int \sin^2 x dx$$

$$22. \int \cos^2 x dx$$

$$23. \int x \cos 2x dx$$

$$24. \int x^2 \sin x dx$$

$$25. \int (x - 1) \cos(x + 1) dx$$

$$26. \int \arctan(x - 1) dx$$

$$27. \int x^2 \arctan x dx$$

$$28. \int e^x \cos x dx$$

$$29. \int e^{2x} \sin 3x dx$$

$$30. \int (x^2 + 1) \ln(x + 1) dx$$

$$31. \int \frac{3x^3 - 1}{x^2 - 3x - 4} dx$$

$$32. \int \frac{x + 8}{2x - 1} dx$$

$$33. \int \frac{x}{5x + 9} dx$$

$$34. \int \frac{x^2 + x + 2}{x^2 + 3x - 4} dx$$

$$35. \int \frac{x^3 + x + 1}{x^2 - 4x - 5} dx$$

$$36. \int \frac{x^2 + 5}{x^2 + 4x - 21} dx$$

$$37. \int \frac{x^2 + 2}{x^2 - 1} dx$$

$$38. \int \frac{x^2}{x^2 + 5x - 6} dx$$

$$39. \int \frac{x^3}{x^2 - 9} dx$$

$$40. \int \frac{x^3 + 5}{x^2 - 2x + 1} dx$$

$$41. \int \frac{x^2 + x - 1}{x^2 - 6x + 9} dx$$

$$42. \int \frac{x}{x^2 - 10x + 25} dx$$

$$43. \int \frac{x^3}{x^2 + 1} dx$$

$$44. \int \frac{x^2 + 3}{x^2 - 2x + 3} dx$$

$$45. \int \frac{x}{x^2 + x + 1} dx$$

$$46. \int \frac{3x}{x^2 - 1} dx$$

$$47. \int \frac{2x}{x + 1} dx$$

$$48. \int \frac{x^2}{x^2 - 4} dx$$

$$49. \int \frac{x^2 + 8}{x - 1} dx$$

$$50. \int x\sqrt{x+1} dx$$

$$51. \int \frac{x}{e^x} dx$$