

Tarea No 1 de Integral Indefinida

1. $\int 3(3x-5)^7 dx$

2. $\int \frac{dx}{(3x+5)^3}$

3. $\int \sqrt[3]{5x^2} dx$

4. $\int \frac{\sqrt[3]{x} + \sqrt{5x^3}}{3x} dx$

5. $\int \frac{\sqrt{5x^3}}{\sqrt[3]{3x}} dx$

6. $\int (\sqrt{x}+1)(x-\sqrt{x}+1)dx$

7. $\int (x^2+4x)(x^2-1)dx$

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

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

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

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

12. $\int \cos\left(\frac{x}{6}\right) dx$

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

14. $\int e^{-2x+9} dx$

15. $\int (3^x - x^3) dx$

16. $\int (e^x - \operatorname{sen} x) dx$

17. $\int 2^{6x} dx$

18. $\int \frac{xdx}{x^2-1}$

19. $\int 2x \operatorname{sen} x^2 dx$

20. $\int \frac{7dx}{2\sqrt{7x+5}}$

21. $\int (x^3 - 6x^2 + 1) dx$

22. $\int e^{-7x} dx$

23. $\int \frac{2 \ln^2 x}{4x} dx$

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

25. $\int \frac{\sqrt{x}}{x} dx$

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

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

28. $\int \operatorname{sen}^3 x \cos x dx$

29. $\int \frac{\operatorname{sen} x - \cos x}{\operatorname{sen} x + \cos x} dx$

30. $\int \frac{\operatorname{sen} 2x}{1 + \operatorname{sen}^2 x} dx$

31. $\int \frac{\cos \sqrt{x}}{\sqrt{x} \operatorname{sen} \sqrt{x}} dx$

32. $\int \cos(2x+5) dx$

33. $\int \frac{\cos(\ln x)}{2x} dx$

34. $\int x \cos(-3x^2-5) dx$

35. $\int 3 \operatorname{sen}(2x+6) dx$

36. $\int \frac{\operatorname{sen} \sqrt{x}}{2\sqrt{x}} dx$

37. $\int \csc^2(2x+1) dx$

38. $\int \frac{\cos x}{\operatorname{sen}^2 x} dx$

39. $\int \frac{\operatorname{sen} x}{\cos^2 x} dx$

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$$40. \int \operatorname{sen} 2x \operatorname{tg} 2x dx$$

$$41. \int (\operatorname{tg}^3 x + \operatorname{tg}^5 x) dx$$

$$42. \int \sec^2 x \sqrt{\operatorname{tg} x} dx$$

$$43. \int \sec^3 x \operatorname{tg} x dx$$

$$44. \int \cos^3 x dx$$

$$45. \int \frac{1}{\operatorname{sen} x \cos x} dx$$

$$46. \int \frac{\operatorname{sen} x + \operatorname{tg} x}{\cos x} dx$$

$$47. \int \frac{dx}{\operatorname{tg} x}$$

$$48. \int \frac{\operatorname{sen} 2x}{\operatorname{sen} x} dx$$

$$49. \int \frac{\sec x}{\tan x + \cot x} dx$$

$$50. \int \frac{\sec 2x}{\sec 2x - \operatorname{tg} 2x} dx$$

$$51. \int \cos^2 x dx$$

$$52. \int \frac{dx}{9 + x^2} dx$$

$$53. \int \frac{1}{4x^2 + 9} dx$$

$$54. \int \frac{dx}{x\sqrt{4x^2 - 9}}$$

$$55. \int \frac{x^2 dx}{\sqrt{1 - x^6}}$$

$$56. \int \frac{dx}{\sqrt{4 - (x + 2)^2}}$$

$$57. \int \frac{3x^3 - 4x^2 + 3x}{x^2 + 1} dx$$

$$58. \int \frac{(x + 3)}{\sqrt{1 - x^2}} dx$$

$$59. \int \frac{dx}{x^2 + 10x + 30}$$

$$60. \int \frac{(2x - 7)dx}{x^2 + 9}$$

$$61. \int \frac{dx}{\sqrt{20 + 8x - x^2}}$$

$$62. \int \frac{dx}{2x^2 + 2x + 5}$$

$$63. \int \frac{x + 1}{x^2 - 4x + 8} dx$$

$$64. \int \frac{2x + 3}{9x^2 - 12x + 8} dx$$

$$65. \int \frac{x + 2}{\sqrt{4x - x^2}} dx$$