

## CÁLCULO 2

### TALLER PROPUESTO DE INTEGRALES INDEFINIDAS

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1. $\int \sqrt[5]{x^2} dx$	2. $\int \frac{89}{\sqrt[3]{x}} dx$	3. $\int \frac{\pi}{5x} dx$
4. $\int \sqrt[7]{777x^2} dx$	5. $\int \left( \frac{5}{x^9} - \frac{4}{x^7} + \frac{66}{x^{95}} \right) dx$	6. $\int \left( \frac{x^4}{\sqrt{a^2+b^2}} + \frac{12x}{\sqrt{a}} \right) dx$
7. $\int \left( \frac{3x^6+x^{32}-2x^2}{x^2} \right) dx$	8. $\int y^3 \left( 3y^2 - 2y^{5/2} + \frac{11}{y^6} \right) dy$	9. $\int \left( x - \frac{1}{x^7} \right) \sqrt{x\sqrt{x}} dx$
10. $\int \frac{(x+7)(x-7)}{\sqrt[3]{x}} dx$	11. $\int (ax^2 - bx)^2 dx$	12. $\int (ax^2 - bx - c)^2 dx$
13. $\int e^{\ln(x)} dx$	14. $\int (a^2y^2 - b^3)^3 dy$	15. $\int t^3 (at^4 - b^5)^2 dt$
16. $\int e^{\ln(x^5)} dx$	17. $\int (a + bx)^4 dx$	18. $\int (a - bx)^4 dx$
19. $\int \text{Ln}(e^{x^6}) dx$	20. $\int \text{Ln}(e^{\sqrt{z}}) dz$	21. $\int e^{\ln\left(\frac{1+x^2}{x^2}\right)} dx$
22. $\int (t - \text{Tan}(t)) dt$	23. $\int \cos^2(x/4) dx$	24. $\int (1 + \sqrt{x})^5 dx$
25. $\int \frac{12}{\sqrt{12-z^2}} dz$	26. $\int \frac{1}{\sqrt{x^2-7}} dx$	27. $\int \frac{1}{\sqrt{t^2+17}} dt$
28. $\int \frac{1}{x^2-6} dx$	29. $\int (\text{sen}^2(t) + \cos^2(t) - 1) dt$	30. $\int (\text{Tan}^2(x) + 1) dx$
31. $\int \frac{4x}{\sqrt{2x^2+8}} dx$	32. $\int \sqrt{x^2 - 5} dx$	33. $\int \frac{1 - \cos^2(x)}{\text{sen}^2(x)} dx$
34. $\int \sqrt{1 - \text{sen}^2(x)} dx$	35. $\int (1^x + 3^x)^3 dx$	36. $\int (1^0 + 3^0)^n dx$
37. $\int \frac{dx}{3-x}$	38. $\int \sqrt{\frac{1}{2} - x^2} dx$	39. $\int \frac{1 + \text{Tan}^2(x)}{\text{sec}^2(x)} dx$
40. $\int (a + bx)^{10} dx$	41. $\int \frac{1}{(3x^2+2)^{2/3}} dx$	42. $\int (4y - 4)^{1/2} dy$
43. $\int \frac{x^2}{x^3+4} dx$	44. $\int (t+2)\text{sen}(t^2 + 4t - 8) dt$	45. $\int w \text{sen}(1 + w^2) dw$
46. $\int y \cot(y^2 + 1) dy$	47. $\int w \sqrt{a + w^4} dw$	48. $\int \frac{t - \text{Arctan}(2t)}{1+4t^2} dt$
49. $\int \frac{1}{(a+bx)^{-1/5}} dx$	50. $\int 7 \sqrt{\frac{\text{arcsen}(t)}{1-t^2}} dt$	51. $\int \frac{dx}{\sqrt{(1+x^2)\text{Ln} x+\sqrt{1+x^2} }}$
52. $\int \frac{\cot(\text{Ln}(t))}{t} dt$	53. $\int \frac{10}{x(\text{Ln}(x))^3} dx$	54. $\int e^{-x+2} dx$
55. $\int t^3 e^{t^4} dt$	56. $\int (e^x + 1)^3 e^{2x} dx$	57. $\int \frac{e^x - 1}{e^{x+1}} dx$
58. $\int 5 \frac{x^2+1}{x-1} dx$	59. $\int \frac{t+2}{t+1} dt$	60. $\int \text{Tan}^5(x) \text{Sec}^2(x) dx$
61. $\int \text{Sen}(x) \text{Sec}^2(x) dx$	62. $\int \text{Cos}(t) \text{Sen}^4(t) dt$	63. $\int \frac{\text{Sec}^5(x)}{\text{Csc}(x)} dx$
64. $\int \text{sec}^2(2x) e^{\text{Tan}(2x)} dx$	65. $\int \frac{1}{x\sqrt{4-9(\text{Ln}(x))^2}} dx$	66. $\int \frac{1}{\sqrt{e^x-1}} dx$

67. $\int \frac{x^2+2x+2}{x+1} dx$	68. $\int \frac{e^{2x}}{\sqrt{e^x+1}} dx$	69. $\int \frac{\text{Ln}(2x)}{\text{Ln}(4x)} dx$
70. $\int \sqrt{a-bx} dx$	71. $\int \frac{x}{x^2-5} dx$	72. $\int \frac{a}{a-x} dx$
73. $\int \frac{x}{a+bx} dx$	74. $\int \frac{s}{(s+1)^2} ds$	75. $\int \frac{\sqrt{x+\text{Ln}(x)}}{x} dx$
76. $\int \frac{1}{\text{sen}^2(4x+2)} dx$	77. $\int \sqrt{1-\text{sen}(2x)} dx$	78. $\int \frac{\text{Arctan}(\sqrt{x})}{(\sqrt{x})(1+x)} dx$
79. $\int \sqrt{\frac{a+x}{a-x}} dx$	80. $\int \sqrt{\frac{\text{sen}^2 x \cos^2 x}{a^2 \text{sen}^2 x + b^2 \text{sen}^2 x}} dx$	81. $\int \frac{1}{x \ln(x) \ln(\text{Ln}(x))} dx$
82. $\int t \sec^2(t) dt$	83. $\int x^2 \text{sen}(x) dx$	84. $\int \ln(a^2 + x^2) dx$
85. $\int \text{Ln}^2(x) dx$	86. $\int x^2 \arctan(x) dx$	87. $\int \text{Arccos}(2x) dx$
88. $\int \frac{\text{Arcsen}(\sqrt{x})}{\sqrt{x}} dx$	89. $\int x \text{Arcsen}(2x^2) dx$	90. $\int x^3 e^{-x^2} dx$
91. $\int (x^2 - 2x + 5) e^{-x} dx$	92. $\int e^{ax} \text{sen}(bx) dx$	93. $\int x \sqrt{1+x} dx$
94. $\int \frac{x^2}{\sqrt{1+x}} dx$	95. $\int \frac{x}{e^{-x}} dx$	96. $\int x^2 \ln \sqrt{1-x}  dx$
97. $\int x(3x+1)^7 dx$	98. $\int \ln(x + \sqrt{1+x^2}) dx$	99. $\int \text{Arcsen}(x) dx$
100. $\int \cos(\ln(x)) dx$	101. $\int \frac{x \cos(x)}{\text{sen}^2(x)} dx$	102. $\int \text{sen}(x) \ln(\tan(x)) dx$
103. $\int (2 - 3 \cos^2(2x)) dx$	104. $\int \text{sen}^3(3x) dx$	105. $\int \cos^5(x) \sqrt{\text{sen}(x)} dx$
106. $\int \text{sen}(3x) \text{sen}(5x) dx$	107. $\int \text{sen}\left(\frac{x}{3}\right) \cos\left(\frac{2x}{3}\right) dx$	108. $\int \tan^5(x) dx$
109. $\int \text{sen}\left(2x - \frac{\pi}{6}\right) \text{sen}\left(3x + \frac{\pi}{4}\right) dx$	110. $\int \cos(x) \cos^2(3x) dx$	111. $\int \frac{1}{\text{sen}^2(x) \cos(x)} dx$
112. $\int \cos(x) \cos(2x) \cos(3x) dx$	113. $\int \frac{\text{sen}\left(x + \frac{\pi}{4}\right)}{\text{sen}(x) \cos(x)} dx$	114. $\int \csc^3(x) dx$
115. $\int \frac{1}{x^2+2x+5} dx$	116. $\int \frac{1}{4x^2+4x+2} dx$	117. $\int \frac{1}{\sqrt{x^2+2x+2}} dx$
118. $\int x^2 \sqrt{9-x^2} dx$	119. $\int \frac{1}{(1+x^2)^{3/2}} dx$	120. $\int \frac{x^2}{(1-x^2)^{3/2}} dx$
121. $\int \frac{1}{x \sqrt{x^2+9}} dx$	122. $\int \frac{dx}{x^3 \sqrt{x^2-9}}$	123. $\int \frac{1}{\sqrt{(x^2+4x+13)^3}} dx$
124. $\int \frac{1}{(x-1)(x+3)} dx$	125. $\int \frac{4x-2}{x^3-x^2-2x} dx$	126. $\int \frac{1}{x^2-25} dx$
127. $\int \frac{1}{x^2-4x+4} dx$	128. $\int \frac{2x^2+3}{x^3-2x^2+x} dx$	129. $\int \frac{x^4}{x^4+1} dx$