

Calcula las siguientes integrales:

1. $\int (4x^5 - 2x^2) dx$
2. $\int (3x^3 - 5x^2 - 2x + 4) dx$
3. $\int (5x^6 - 3x^2) dx$
4. $\int (x^2 - x + \frac{1}{x} - \frac{2}{x^3}) dx$
5. $\int (4x^5 - \text{sen}x + e^x) dx$
6. $\int \frac{3x^2}{x^3 + 2} dx$
7. $\int (x^5 - 3^x \cdot \ln 3 - \cos x) dx$
8. $\int (3x^6 - \frac{2}{x} - 2\text{sen}x + 5\cos x) dx$
9. $\int (5^x - 2\text{sen}2x + \cos 3x) dx$
10. $\int (3^x - x \cdot e^{x^2} + x^3 \cdot \cos 3x^4) dx$
11. $\int (\frac{1}{x^4} - \sqrt{x} + \sec^2 x) dx$
12. $\int x^2 \sqrt{x} dx$
13. $\int \sqrt[3]{x^2} dx$
14. $\int \frac{dx}{\sqrt[5]{x}}$
15. $\int \frac{3x^4}{5} dx$
16. $\int \sqrt{5x} dx$
17. $\int \frac{dx}{\sqrt[5]{8x^2}}$
18. $\int 3x^{5/2} dx$
19. $\int (3 - 4x) dx$
20. $\int (x^5 - 7 + \frac{4}{x^2}) dx$
21. $\int \frac{x^7 - 7x^2 + 4}{x} dx$
22. $\int (x + 4)^3 dx$
23. $\int (3x + 4)^3 dx$
24. $\int x^2 \cdot (x^3 - 2)^5 dx$
25. $\int \frac{(x^2 - 1)^2}{\sqrt{x}} dx$
26. $\int (\sqrt{x} - \sqrt{a})^2 dx$
27. $\int \sqrt{x - a} dx$
28. $\int (\sqrt{x} + 1) \cdot (x - \sqrt{x} + 1) dx$
29. $\int (2x + 5) \cdot \sqrt{x^2 + 5x + 7} dx$
30. $\int x \cdot \sqrt[3]{x^2 + 5} dx$
31. $\int \frac{x}{\sqrt{1 - x^2}} dx$
32. $\int \frac{x}{x^2 + 1} dx$
33. $\int \frac{x}{\sqrt{x^2 + 1}} dx$
34. $\int \frac{x}{x^2 - 5} dx$
35. $\int x \cdot 7^{x^2} dx$
36. $\int \frac{e^x}{e^x - 1} dx$
37. $\int (\text{sen}(2x + 5) - x^4 \cdot \cos 3x^4) dx$
38. $\int [\text{sen}^2 x \cdot \cos x - \cos(x + 1)^2 \cdot (x + 1)] dx$
39. $\int \cos \frac{x}{\sqrt{2}} dx$
40. $\int \text{tg}^3 \frac{x}{3} \cdot \sec^2 \frac{x}{3} dx$
41. $\int \frac{\sqrt{\text{tg} x}}{\cos^2 x} dx$
42. $\int x \cdot \text{sen}(1 - x^2) dx$
43. $\int \frac{dx}{\text{tg}(x/5)}$
44. $\int 2x \cdot \text{sen} x^2 dx$
45. $\int (2x + 1) \cdot e^{x^2 + x} dx$
46. $\int (x + 1) \cdot e^{x^2 + 2x} dx$
47. $\int \cos(2x + 1) dx$
48. $\int \frac{\ln x}{x} dx$
49. $\int \frac{\ln^3 2x}{x} dx$
50. $\int \text{sen}(2x + \pi) dx$
51. $\int \text{tg}^2 x dx$
52. $\int \text{tg}^3 x dx$
53. $\int \frac{\ln(1 + x)}{1 + x} dx$
54. $\int \text{sen}^4 x \cdot \cos x dx$
55. $\int \frac{1}{x^2} \cdot \cos \frac{1}{x} dx$
56. $\int \frac{1}{5x} \cdot (\ln x)^7 dx$
57. $\int x \cdot \sqrt{1 - x^2} dx$
58. $\int \frac{e^{2x}}{\sqrt{1 - e^{4x}}} dx$
59. $\int e^{\text{sen}5x} \cdot \cos 5x dx$
60. $\int \frac{\text{sen} x}{1 + \cos^2(x/2)} dx$
61. $\int \left(3x + 4x\sqrt{2x} + \frac{1}{\sqrt{2x}} \right) dx$
62. $\int \left(e^x + 3^x - \text{sen}2x + \frac{4}{x} \right) dx$
63. $\int \frac{5x + \sqrt{3x}}{x^2} dx$
64. $\int \frac{x^3 + -2\sqrt[3]{x} + 2x\sqrt{x} - 1}{5x} dx$
65. $\int \frac{4^x + 6^x}{2^{x-1}} dx$
66. $\int \frac{x^2 + 2}{(x + 1)^2 - 2x} dx$
67. $\int \cotg^2 x dx$
68. $\int \sqrt{x\sqrt{x^2\sqrt{x^3}}} dx$
69. $\int x \cdot (3x^2 - 5)^5 dx$
70. $\int \frac{3x + 1}{x^2 + 4} dx$
71. $\int \frac{e^{2x}}{\sqrt{e^{2x} + 3}} dx$
72. $\int \frac{3x^2 - 4x + 1}{2x^3 - 4x^2 + 2x + 5} dx$
73. $\int \text{sen}3x \cdot \cos 3x dx$
74. $\int \frac{2x}{\cos^2 5x^2} dx$
75. $\int \frac{dx}{\sqrt{9 - x^2}}$
76. $\int \frac{x}{\sqrt{5 - x^2}} dx$

77. $\int \frac{dx}{\sqrt{x}(1-\sqrt{x})}$
78. $\int \frac{1}{x^2+7} dx$
79. $\int \frac{dx}{3x^2+5}$
80. $\int \frac{x^2}{1+x^6} dx$
81. $\int \frac{x}{x^4+3} dx$
82. $\int \left(x + \frac{1}{\sqrt{x}}\right) \cdot \sqrt[3]{x} dx$
83. $\int \frac{\ln^5 6x}{3x} dx$
84. $\int \frac{3}{x \cdot \ln 2x} dx$
85. $\int \text{sen}^2 5x \cdot \cos 5x dx$
86. $\int \frac{\sqrt{7+2\text{tg}x}}{\cos^2 x} dx$
87. $\int \frac{1-\text{sen}^2 x}{\text{sen}x \cdot \cos x} dx$
88. $\int \text{tg}(2x+1) dx$
89. $\int \frac{x}{\sqrt{x^2+1}} dx$
90. $\int x \cdot \sqrt{x^2+1} dx$
91. $\int \frac{x}{x^4+9} dx$
92. $\int \frac{\text{sen}x + \cos x}{\cos^3 x} dx$
93. $\int \frac{\sqrt[3]{x}}{x \cdot \cos^2 \sqrt[3]{x}} dx$
94. $\int \frac{2e^x}{\sqrt{1-e^{2x}}} dx$
95. $\int \frac{5x+2}{1+2x^2} dx$
96. $\int \frac{1+\text{tg}^2 x}{\sqrt{1+2\text{tg}x}} dx$
97. $\int \frac{e^{\sqrt{2x}}}{\sqrt{x}} dx$
98. $\int \frac{2x^3}{1+x^8} dx$
99. $\int \frac{2^x}{1+4^x} dx$
100. $\int \frac{2e^{-x}}{2+e^{-x}} dx$
101. $\int \frac{\sqrt{\arcsen x}}{\sqrt{1-x^2}} dx$
102. $\int \text{tg} x dx$
103. $\int \frac{3x}{5x^2+4} dx$
104. $\int (a+bx^3)^2 dx$
105. $\int \frac{(x^2+1) \cdot (x^2-2)}{\sqrt[3]{x^2}} dx$
106. $\int \frac{x}{2x^2+3} dx$
107. $\int \frac{x-\sqrt{\text{arctg} 2x}}{1+4x^2} dx$
108. $\int \frac{1}{3+\sqrt{x+2}} dx$
109. $\int \frac{\sqrt{x}-1}{\sqrt{x+1}} dx$
110. $\int \frac{x}{\sqrt{1-x^4}} dx$
111. $\int \frac{1+2\text{sen} x \cos x}{\cos^2 x} dx$
112. $\int \text{sen}^3 x \cdot \cos x dx$
113. $\int \cotg^3 x dx$
114. $\int \text{tg}^4 x dx$
115. $\int \sec^2 x \cdot \text{tg}^2 x dx$
116. $\int \text{tg}^5 x \cdot \sec x^2 dx$
117. $\int (e^x + e^{-x})^3 dx$
118. $\int \frac{1+x}{1+\sqrt{x}} dx$
119. $\int \frac{dx}{\sqrt{e^x-1}}$
120. $\int \frac{e^{2x}}{\sqrt{e^x+1}} dx$
121. $\int x \cdot \sqrt{x-2} dx$
122. $\int x \cdot \sqrt{1+x} dx$
123. $\int x^5 \cdot \sqrt{1-x^3} dx$
124. $\int \frac{x}{\sqrt{x+1}} dx$
125. $\int \frac{\sqrt{x}}{1+x} dx$
126. $\int x \cdot \text{sen} x dx$
127. $\int x \cdot e^x dx$
128. $\int x^2 \cdot e^x dx$
129. $\int (x^2-2x-3) \cdot \ln x dx$
130. $\int \ln x dx$
131. $\int x \cdot \ln x dx$
132. $\int e^x \cdot \cos x dx$
133. $\int x^2 \cdot e^{3x} dx$
134. $\int x^3 \cdot e^{2x} dx$
135. $\int x \cdot \text{sen}x \cdot \cos x dx$
136. $\int x \cdot 2^x dx$
137. $\int x \cdot \text{sen}^2 x dx$
138. $\int x \cdot 2^{-x} dx$
139. $\int (x-1) \cdot e^x dx$
140. $\int (x^2-1) \cdot e^x dx$
141. $\int 3^x \cdot \cos x dx$
142. $\int e^x \cdot \text{sen} x dx$
143. $\int \text{arctg} x dx$
144. $\int x \cdot \text{arctg} x dx$
145. $\int \frac{\ln x}{x^2} dx$
146. $\int \frac{\ln x}{(1+x)^2} dx$
147. $\int (\ln x)^2 dx$
148. $\int \cos x \cdot \ln(\text{sen} x) dx$
149. $\int \text{sen} \sqrt{x} dx$
150. $\int \text{sen}(\ln x) dx$