



Guía de Integrales Indefinidas.

1. $\int 5a^2x^6dx$
2. $\int (6x^2 + 8x + 3)dx$
3. $\int x(x + a)(x + b)dx$
4. $\int (a + bx^3)^2dx$
5. $\int \sqrt{2px}dx$
6. $\int \frac{dx}{\sqrt[n]{x}}$
7. $\int (nx)^{\frac{1-n}{n}}dx$
8. $\int (a^{\frac{2}{3}} - x^{\frac{2}{3}})dx$
9. $\int (\sqrt{x} + 1)(x - \sqrt{x} + 1)dx$
10. $\int \frac{(x^2 + 1)(x^2 - 2)}{\sqrt[3]{x^2}}dx$
11. $\int \frac{(x^m - x^n)^2}{\sqrt{x}}dx$
12. $\int \frac{(\sqrt{a} - \sqrt{x})^4}{\sqrt{ax}}dx$
13. $\int \frac{dx}{x^2 + 7}$
14. $\int \frac{dx}{x^2 - 7}$
15. $\int \frac{dx}{\sqrt{4 + x^2}}$
16. $\int \frac{dx}{\sqrt{8 - x^2}}$
17. $\int \frac{\sqrt{2 + x^2} - \sqrt{2 - x^2}}{\sqrt{4 - x^4}}dx$
18. $\int \tan^2 xdx$
19. $\int \tanh^2 xdx$
20. $\int \cot^2 xdx$
21. $\int \frac{1}{\tanh^2 x}dx$
22. $\int 3^x e^x dx$
23. $\int \frac{dx}{\sqrt{5x - 2}}$
24. $\int \frac{x}{\sqrt{1 + x^4}}dx$
25. $\int x^2 e^{x^3} dx$

26.
$$\int \frac{a}{a-x} dx$$

27.
$$\int \frac{2x+3}{2x+1} dx$$

28.
$$\int \frac{1-3x}{3+2x} dx$$

29.
$$\int \frac{xdx}{a+bx}$$

30.
$$\int \frac{ax+b}{\alpha x+\beta} dx$$

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

32.
$$\int \frac{x^2+5x+7}{x+3} dx$$

33.
$$\int \frac{x^4+x^2+1}{x-1} dx$$

34.
$$\int \left(a + \frac{b}{x-a} \right) dx$$

35.
$$\int \frac{x}{(x+1)^2} dx$$

36.
$$\int \frac{b}{\sqrt{1-y}} dy$$

37.
$$\int \sqrt{a-bx} dx$$

38.
$$\int \frac{x}{\sqrt{x^2+1}} dx$$

39.
$$\int \frac{\sqrt{x} + \ln x}{x} dx$$

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

41.
$$\int \frac{dx}{7x^2-8}$$

42.
$$\int \frac{dx}{(a+b)-(a-b)x^2}, \quad (0 < b < a) \quad 40. \quad \int \frac{x - \sqrt{\arctan 2x}}{1+4x^2} dx$$

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

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

45.
$$\int \frac{x^2-5x+6}{x^2+4} dx$$

46.
$$\int \frac{dx}{\sqrt{7+8x^2}}$$

47.
$$\int \frac{dx}{\sqrt{7-5x^2}}$$

48.
$$\int \frac{2x-5}{3x^2-2} dx$$

49.
$$\int \frac{3-2x}{5x^2+7} dx$$

50.
$$\int \frac{3x+1}{\sqrt{5x^2+1}} dx$$

51.
$$\int \frac{x+3}{\sqrt{x^2-4}} dx$$

52.
$$\int \frac{xdx}{x^2-5}$$

53.
$$\int \frac{xdx}{2x^2+3}$$

54.
$$\int \frac{ax+b}{a^2x^2+b^2} dx$$

55.
$$\int \frac{xdx}{\sqrt{a^4-x^4}}$$

56.
$$\int \frac{x^2dx}{1+x^6}$$

57.
$$\int \frac{x^2dx}{\sqrt{x^6-1}}$$

58.
$$\int \sqrt{\frac{\arcsin x}{1-x^2}} dx$$

59.
$$\int \frac{\arctan \frac{x}{2}}{4+x^2} dx$$

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61. $\int \frac{dx}{\sqrt{(1+x^2) \ln(x+\sqrt{1+x^2})}}$
62. $\int ae^{-mx}dx$
63. $\int 4^{2-3x}dx$
64. $\int (e^t - e^{-t})dt$
65. $\int (e^{\frac{x}{a}} + e^{-\frac{x}{a}})dx$
66. $\int \frac{(a^x - b^x)^2}{a^x b^x}dx$
67. $\int \frac{a^{2x} - 1}{\sqrt{a^x}}dx$
68. $\int e^{-(x^2+1)}x dx$
69. $\int x \cdot 7^{x^2}dx$
70. $\int \frac{e^{\frac{1}{x}}}{x^2}dx$
71. $\int 5^{\sqrt{x}} \frac{dx}{\sqrt{x}}$
72. $\int \frac{e^x}{e^x - 1}dx$
73. $\int e^x \sqrt{a - be^x}dx$
74. $\int (e^{\frac{x}{a}} + 1)^{\frac{1}{3}} e^{\frac{x}{a}}dx$
75. $\int \frac{dx}{2^x + 3}$
76. $\int \frac{a^x dx}{1 + a^{2x}}$
77. $\int \frac{e^{-bx}}{1 - e^{-2bx}}dx$
78. $\int \frac{e^t}{\sqrt{1 - e^{2t}}}dt$
79. $\int \sin(a + bx)dx$
80. $\int \cos \frac{x}{\sqrt{2}}dx$
81. $\int (\cos ax + \sin ax)^2 dx$
82. $\int \cos \sqrt{x} \frac{dx}{\sqrt{x}}$
83. $\int \sin(\log x) \frac{dx}{x}$
84. $\int \sin^2 x dx$
85. $\int \cos^2 x dx$
86. $\int \sec^2(ax + b)dx$
87. $\int \cot^2 ax dx$
88. $\int \frac{dx}{\sin \frac{x}{a}}$
89. $\int \frac{dx}{3 \cos(5x - \frac{\pi}{4})}$
90. $\int \frac{xdx}{\cos^2 x^2}$
91. $\int x \sin(1 - x^2)dx$
92. $\int \tan x dx$
93. $\int \cot x dx$
94. $\int \cot \frac{x}{a-b}dx$
95. $\int \frac{dx}{\tan \frac{x}{5}}$

96. $\int \tan \sqrt{x} \frac{dx}{\sqrt{x}}$

97. $\int x \cot(x^2 + 1) dx$

98. $\int \frac{dx}{\sin x \cos x}$

99. $\int \cos \frac{x}{a} \sin \frac{a}{x} dx$

100. $\int \sin^3 6x \cos 6x dx$

101. $\int \frac{\cos ax}{\sin^5 ax} dx$

102. $\int \frac{\sin 3x}{3 + \cos 3x} dx$

103. $\int \frac{\sin x \cos x}{\sqrt{\cos^2 x - \sin^2 x}} dx$

104. $\int \sqrt{1 + 3 \cos^2 x} \sin 2x dx$

105. $\int \tan \frac{x}{3} \sec^2 \frac{x}{3} dx$

106. $\int \frac{\sqrt{\tan x}}{\cos^2 x} dx$

107. $\int \frac{\cot^{\frac{2}{3}} x}{\sin^2 x} dx$

108. $\int \frac{(\cos ax + \sin ax)^2}{\sin ax} dx$

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

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

111. $\int \frac{x^3}{x^8 + 5} dx$

112. $\int x e^{-x^2} dx$

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

114. $\int \frac{x^3 - 1}{x + 1} dx$

115. $\int \frac{dx}{\sqrt{e^x}}$

116. $\int \frac{1 - \sin x}{x + \cos x} dx$

117. $\int \frac{\tan 3x - \cot 3x}{\sin 3x} dx$

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

119. $\int \frac{\sec^2 x}{\sqrt{\tan^2 x - 2}} dx$

120. $\int \left(2 + \frac{x}{2x^2 + 1}\right) \frac{dx}{2x^2 + 1}$

121. $\int a^{\sin x} \cos x dx$

122. $\int \frac{x^2}{\sqrt[3]{x^3 + 1}} dx$

123. $\int \frac{xdx}{\sqrt{1 - x^4}}$

124. $\int \frac{(1+x)^2}{x(1+x^2)} dx$

125. $\int \frac{\arcsin x + x}{\sqrt{1 - x^2}} dx$

126. $\int \frac{\sec x \tan x}{\sqrt{\sec^2 x + 1}} dx$

127. $\int \sqrt{\frac{\ln(x + \sqrt{x^2 + 1})}{1 + x^2}} dx$

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

129. $\int \frac{dx}{x\sqrt{x^2 - 2}}, \quad x = \frac{1}{t}$

130. $\int \frac{dx}{e^x + 1}, \quad x = -\ln t$

131. $\int x(5x^2 - 3)^7 dx, \quad 5x^2 - 3 = t$

132. $\int \frac{xdx}{\sqrt{x+1}}, \quad t = \sqrt{x+1}$

133. $\int \frac{\cos x dx}{\sqrt{1+\sin^2 x}}, \quad t = \sin x$

134. $\int \frac{1+x}{1+\sqrt{x}} dx$

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

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

137. $\int \frac{\sqrt{x^2-a^2}}{x} dx$

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

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

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

141. $\int \sqrt{1-x^2} dx$

142. $\int \frac{dx}{x(1-x)}, \quad x = \sin^2 t$

143. $\int x \ln x dx$

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

145. $\int \ln x dx$

146. $\int \arctan x dx$

147. $\int \arcsin x dx$

148. $\int x \sin x dx$

149. $\int x \cos 3x dx$

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

151. $\int x \cdot 2^{-x} dx$

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

153. $\int (x^2 - 2x + 5) e^{-x} dx$

154. $\int x^3 e^{-\frac{x}{3}} dx$

155. $\int x \sin x \cos x dx$

156. $\int (x^2 + 5x + 6) \cos 2x dx$

157. $\int x^2 \ln x dx$

158. $\int \ln^2 x dx$

159. $\int \frac{\ln x}{x^3} dx$

160. $\int \frac{\ln x}{\sqrt{x}} dx$

161. $\int x \arctan x dx$

162. $\int x \arcsin x dx$

163. $\int \ln(x + \sqrt{1+x^2}) dx$

164. $\int \frac{x}{\sin^2 x} dx$

165. $\int \frac{x \cos x}{\sin^2 x} dx$

166. $\int e^x \sin x dx$

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

168. $\int e^{ax} \sin bx dx$

169. $\int \sin \ln x dx$

170. $\int x^3 e^{-x^2} dx$

171. $\int e^{\sqrt{x}} dx$

172. $\int (x^2 - 2x + 3) \ln x dx$

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

174. $\int x \ln \frac{1-x}{1+x} dx$

175. $\int \frac{\ln(\ln x)}{x} dx$

176. $\int x^2 \arctan 3x dx$

177. $\int x(\arctan x)^2 dx$

178. $\int \frac{\arcsin \sqrt{x}}{\sqrt{1-x}} dx$

179. $\int \frac{\sin^2 x}{e^x} dx$

180. $\int \cos^2 (\ln x) dx$

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

182. $\int \frac{dx}{2x^2 - 5x + 7}$

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

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

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

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

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