INTEGRALES

1. $\int x^3\,dx$ 2. $\int \frac{x^3}{3}\,dx$ 3. $\int \frac{x^4}{6}\,dx$

4. $\int (x^3 + 3)\,dx$ 5. $\int \left(x^2 + 2x - \frac{1}{x}\right)dx$ 6. $\int \frac{x^3 - x^2 + 1}{x}\,dx$

7. $\int \frac{dx}{x^2}$ 8. $\int \frac{dx}{x^5}$ 9. $\int \frac{x^4 - 2x + 3}{x^6}\,dx$

10. $\int \frac{4\sqrt[3]{x}}{3}\,dx$ 11. $\int \frac{dx}{\sqrt[4]{x}}$ 12. $\int \left(\frac{8}{3}\sqrt[3]{x} + 3\sqrt{x}\right)dx$

13. $\int \sqrt[3]{x}\,(\sqrt{x} + 1)\,dx$ 14. $\int (x^2 - 2\,senx + 8\,cosx)\,dx$ 15. $\int \left(e^x + \frac{1}{x}\right)dx$

16. $\int \frac{dx}{x\sqrt{x}}$ 17. $\int \frac{(x + 1)(x^2 + 3)}{x^3}\,dx$ 18. $\int (\sec^2 x + cosx + x)\,dx$

19. $\int tg^2 x\,dx$ 20. $\int \left(\sqrt{x} + \frac{1}{\sqrt{x}}\right)dx$ 21. $\int \frac{\cos^2 x - sen^2 x}{sen^2 x\,\cos^2 x}\,dx$

22. $\int e^x \left(1 + \frac{e^{-x}}{x}\right)dx$ 23. $\int 5^x\,3^x\,dx$

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

25. $\int \frac{dx}{sen^2 x\,\cos^2 x}$ 26. $\int \frac{2 - sen^3 x}{sen^2 x}\,dx$ 27. $\int \frac{dx}{3x + 2}$

28. $\int \frac{dx}{3 - x}$ 29. $\int \frac{x\,dx}{2 + x^2}$ 30. $\int \frac{2\,dx}{(x + 1)^3}$

31. $\int \frac{x^2\,dx}{1 + x^3}$ 32. $\int \frac{sen2x\,dx}{3 + sen^2 x}$ 33. $\int \frac{(x - 3)\,dx}{\sqrt{x^2 - 6x + 1}}$

34. $\int e^x \sqrt{2 + e^x}\,dx$ 35. $\int \frac{\ln x}{x}\,dx$ 36. $\int x^2 \sqrt{x^3 + 1}\,dx$

37. $\int sen\,5x\,dx$ 38. $\int 6x \cos x^2\,dx$ 39. $\int \frac{\cos x\,dx}{1 + sen^2 x}$

40. $\int \frac{dx}{\cos^2 x \sqrt{1 - tg^2 x}}$ 41. $\int x^4\,e^{x^5}\,dx$ 42. $\int \frac{(4x^3)\,dx}{1 + x^8}$

43. $\int 2^x\,dx$ 44. $\int \frac{dx}{x^2 + 9}$ 45. $\int e^{7x}\,dx$

46. $\int (e^x + e^{-x})\,dx$ 47. $\int \frac{e^{\sqrt{x}}}{\sqrt{x}}$ 48. $\int \frac{\cos x}{e^{sen\,x}}\,dx$

49. $\int \frac{dx}{\sqrt{25 - x^2}}$ 50. $\int \frac{dx}{2x^2 + 9}$ 51. $\int (2x + 5)^9\,dx$

52. $\int \frac{(arctgx)^3\,dx}{1 + x^2}$ 53. $\int sen^5 x \cos x\,dx$ 54. $\int \frac{\cos x}{\sqrt[3]{sen^2 x}}\,dx$

55. $\int \frac{dx}{x \ln x}$ 56. $\int \frac{\cos \sqrt{x}}{\sqrt{x}} dx$ 57. $\int (e^x + e^{-x})^2 dx$

58. $\int \frac{dx}{(\arccos x)^3 \sqrt{1 - x^2}}$ 59. $\int \frac{1 + \ln x}{5 + x \ln x} dx$ 60. $\int \frac{tg^2 x + tgx}{\cos^2 x} dx$

61. $\int \sqrt{cosx}\ senx\ dx$ 62. $\int e^{e^x} e^x dx$ 63. $\int e^x \cos e^x dx$

64. $\int \frac{dx}{(x + 1)^2 + 1}$ 65. $\int \frac{sen^3 x}{\sqrt{cosx}} dx$ 66. $\int senlnx \frac{dx}{x}$

67. $\int \frac{x^2 dx}{2 + x^6}$ 68. $\int \frac{dx}{x \sqrt{1 - \ln^2 x}} dx$ 69. $\int \frac{\sqrt{3 + \sqrt{x}}}{\sqrt{x}} dx$

70. $\int \frac{\cos^3 x}{sen^3 x} dx$ 71. $\int x^3 e^{-x^4} dx$ 72. $\int \frac{e^x}{e^{2x} - 2e^x + 1} dx$

73. $\int \frac{x\ dx}{\sqrt{1 - x^4}}$ 74. $\int x \sqrt{1 + x^2} dx$

75. $\int \ln (\cos x)\ tgx\ dx$

76. $\int \frac{\ln (\ln x)}{x \ln x} dx$ 77. $\int \frac{e^{2\ tg\ x}}{\cos^2 x} dx$ 78. $\int \frac{senx}{\cos^2 x} dx$

79. $\int sen2 \frac{x}{\sqrt{2 - \cos 2x}} dx$ 80. $\int sen^3 x \cos^2 x\ dx$ 81. $\int \frac{\cos x}{e^{sen\,x}} dx$

INTEGRACIÓN POR PARTES

82. $\int x\ senx\ dx$ 83. $\int x \cos 3x\ dx$ 84. $\int x^2 \ln x\ dx$

85. $\int x^3 e^x dx$ 86. $\int x^2 e^{3x} dx$ 87. $\int x\ e^x dx$

88. $\int arcsenx\ dx$ 89. $\int x \sqrt{1 + 2x}\ dx$ 90. $\int x\ arctgx\ dx$

91. $\int x^2\ senx\ dx$ 92. $\int (\ln x)^2 dx$ 93. $\int \mathrm{sen}(\ln x)\ dx$

94. $\int \sqrt{x} \ln x\ dx$ 95. $\int arctgx\ dx$ 96. $\int x^2 \cos x\ dx$

97. $\int \frac{x\ dx}{\sqrt{1 + x}}$ 98. $\int sen(\ln x)\ dx$ 99. $\int \frac{2x\ dx}{\cos^2 x}$

100. $\int \frac{\ln x}{\sqrt{x}} dx$ 101. $\int (x^2 - x)\ e^{-x} dx$ 102. $\int x^3 e^{x^2} dx$

103. $\int \ln x\ dx$ 104. $\int e^x \cos x\ dx$ 105. $\int e^x sen\ x\ dx$

106. $\int x\ e^{-3x} dx$ 107. $\int \frac{x\ dx}{\cos^2 x}$ 108. $\int x\ cosx\ dx$

109. $\int \frac{\ln x}{x^3} dx$ 110. $\int x^2\ senx\ dx$ 111. $\int e^{-3x} \cos x\ dx$

112. $\int x (\ln x)^2 dx$ 113. $\int x^3 \ln x\ dx$ 114. $\int \frac{\ln (\ln x)}{x} dx$

115. $\int \frac{x\ dx}{\sqrt{1 - x}}$ 116. $\int (x - 3) senx\ dx$ 117. $\int \ln (x + \sqrt{1 + x^2})\ dx$

118. $\int \frac{x \ arcsenx}{\sqrt{1 - x^2}} \, dx$ 119. $\int x \ arcsenx^2 \, dx$ 120. $\int \sqrt{x} \ (lnx)^2 \, dx$

INTEGRACIÓN DE FUNCIONES RACIONALES

121. $\int \frac{2x - 3}{x + 2} \, dx$ 122. $\int \frac{dx}{x^2 - 4}$ 123. $\int \frac{x - 1}{x^2 + x - 6} \, dx$ 1

124. $\int \frac{2 \ dx}{x^2 + 5x + 6}$ 125. $\int \frac{x + 1}{x \ (x - 1)^2} \, dx$ 126. $\int \frac{dx}{x^2 + 2x}$ 2

127. $\int \frac{x^2 + 1}{x^2 + x - 6} \, dx$ 128. $\int \frac{x^3 - 1}{x^2 + x} \, dx$ 129. $\int \frac{x^2 + 1}{x^2 - 1} \, dx$ 3

130. $\int \frac{dx}{x^2 \ (x + 1)}$ 131. $\int \frac{dx}{x^2 - 9}$ 132. $\int \frac{x \ dx}{(x - 1)^2 \ (x + 1)}$ 4

133. $\int \frac{6 \ dx}{x \ (x - 1) \ (x + 2)}$ 134. $\int \frac{x^2 - x + 1}{x^3 - 2x^2 + x} \, dx$ 135. $\int \frac{2x^2 + 2x - 1}{x + 1} \, dx$ 5

136. $\int \frac{(2x^2 - 7x) \ dx}{x^3 - 3x^2 + 4}$ 137. $\int \frac{(2x + 4) \ dx}{x^2 + 2x - 3}$ 138. $\int \frac{dx}{(x + 1)(x - 2)^2(x + 3)}$

139. $\int \frac{dx}{x^3 + x^2}$ 140. $\int \frac{(3x^2 + 2x + 5) \ dx}{(x - 2)^2 \ (x + 1)^2}$ 141. $\int \frac{x^5 + x^4 - 8}{x^3 - 4x} \, dx$

142. $\int \frac{x^2 - 1}{x^2 + 1} \, dx$ 143. $\int \frac{(x - 8) \ dx}{x^3 - 4x^2 + 4x}$ 144. $\int \frac{x + 1}{x^3 - 4x^2 + 5x - 2} \, dx$

145. $\int \frac{dx}{x^3 + x^2 + x}$ 146. $\int \frac{dx}{x^2 + 4}$ 147. $\int \frac{dx}{x^2 - 2x + 5}$

148. $\int \frac{3 \ dx}{x^3 - 1}$ 149. $\int \frac{5x^2 - 2x + 25}{x^3 - 6x^2 + 25x} \, dx$ 150. $\int \frac{-2x \ dx}{(x - 1)^2 (x^2 + 1)}$

INTEGRALES VARIADAS

151. $\int (x^3 + 3x^2 + 2x - 3) \, dx$ 152. $\int (e^x + 3) \, dx$ 153. $\int \left(e^{-x} + \sqrt[3]{x} - \frac{1}{\sqrt[3]{2x}} + \frac{1}{x^2} \right) dx$

154. $\int x^2 \ e^x \, dx$ 155. $\int \frac{dx}{(3x + 1)^4}$ 156. $\int \frac{3 + 2x^2}{5 + (3x + 2/3 \ x^3)} \, dx$

157. $\int \frac{(2x + 1) \ dx}{(x^2 + x)^3}$ 158. $\int \frac{x}{\cos^2 x} \, dx$ 159. $\int \frac{5 \ dx}{e^x + e^{-x}}$

160. $\int (1 + tag^2 x^2) \ x \, dx$ 161. $\int sen^2 x \, dx$ 162. $\int tag^2 x \, dx$

163. $\int (3 + tag^2 x) \, dx$ 164. $\int \frac{\sqrt{1+x}}{\sqrt{1-x}} \, dx$ 165. $\int \sqrt{2 + x^2} \ x \, dx$

166. $\int \frac{5\ cosx}{\sqrt{1 + senx}}\ dx$

167. $\int \frac{e^{3x} + e^{x} + 1}{e^{x}}\ dx$

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

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

170. $\int \frac{5^x}{3^x}\ dx$

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

172. $\int \left(\frac{6x^2}{sen^2 x^3} + \frac{4}{\cos^2 4x} \right) dx$

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

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

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

176. $\int \frac{e^{3x}}{1 + e^{6x}}\ dx$

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

178. $\int \frac{tgx}{\cos^2 x}\ dx$

179. $\int tgx\ dx$

180. $\int (\cos 5x - 3\ sen2x)\ dx$

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

182. $\int \frac{\ln\ x}{x}\ dx$

183. $\int (x - e^x\ cosx)\ dx$

184. $\int \frac{dx}{1 - senx}$

185. $\int e^{senx}\ cosx\ dx$

186. $\int sen^3 x\ \cos^3 x\ dx$

187. $\int x\ \cos(1 + x^2)\ dx$

188. $\int \frac{dx}{\sqrt{x}\ (1 + \sqrt{x})}$

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

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

191. $\int \frac{x - \sqrt{x}}{\sqrt{x} - \sqrt[3]{x}}\ dx$

192. $\int \frac{dx}{1 - sen^2 x}$

193. $\int \frac{x\ dx}{x + \sqrt{x}}$

194. $\int \frac{tg^3 x}{\cos^2 x}\ dx$

195. $\int \frac{e^{tgx}}{\cos^2 x}\ dx$

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

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

198. $\int \frac{1 + sen^2 x}{senx\ cosx}\ dx$

199. $\int \frac{cosx}{sen^3 x}\ dx$

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