INTEGRATION MIX

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

2. $\int \dfrac{12}{\sqrt{3x+1}} \, dx$

3. $\int \dfrac{12x}{\sqrt{4x-1}} \, dx$

4. $\int \dfrac{12}{4x+1} \, dx$

5. $\int \dfrac{12x}{4x+1} \, dx$

6. $\int (\sin x + \cos x)^2 \, dx$

7. $\int (2\sin x + \operatorname{cosec} x)^2 \, dx$

8. $\int \dfrac{5}{(3x-1)(2x+1)} \, dx$

9. $\int 4x \sin 2x \, dx$

10. $\int \dfrac{7}{4x} \, dx$

11. $\int \left(x + \dfrac{2}{x} \right)^2 \, dx$

12. $\int \dfrac{10}{(1-4x)^{\frac{7}{2}}} \, dx$

13. $\int (1 + 2\cos x) \sin x \, dx$

14. $\int 2\cos^2 x - \cos\left(\tfrac{1}{2}x\right) \, dx$

15. $\int \dfrac{14x}{x^2-4} \, dx$

16. $\int \dfrac{9}{2x^2+x-1} \, dx$

17. $\int (8x+1)e^{-2x} \, dx$

18. $\int \left(e^{2x} + e^{-x}\right)^2 \, dx$

19. $\int \dfrac{6}{(3x+2)^3} \, dx$

20. $\int \dfrac{6x}{(3x+2)^3} \, dx$

21. $\int (\sin x - 2\cos x)\sin x \, dx$

22. $\int \dfrac{(2+\cos x)\sin 2x}{2\cos x} \, dx =$

23. $\displaystyle\int \frac{8x-3}{4x}\,dx$

24. $\displaystyle\int \frac{6x^2}{x^3+8}\,dx$

25. $\displaystyle\int (1+2\cos x)^3 \sin x\,dx$

26. $\displaystyle\int \cos\sqrt{x}\,dx$

27. $\displaystyle\int \frac{3}{2x-1}\,dx$

28. $\displaystyle\int \frac{10}{(2x+1)^6}\,dx$

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

30. $\displaystyle\int (2+\sin x)^2\,dx$

31. $\displaystyle\int 5(2x-3)^{\frac{1}{4}}\,dx$

32. $\displaystyle\int \frac{e^{4x}+3}{e^{3x}}\,dx$

33. $\displaystyle\int x e^{5x}\,dx$

34. $\displaystyle\int \frac{x^3}{x^4+2}\,dx$

35. $\displaystyle\int \frac{2}{(x-2)(x-4)}\,dx$

36. $\displaystyle\int \frac{3}{4x+1}\,dx$

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

38. $\displaystyle\int \frac{x}{\left(x^2-1\right)^3}\,dx$

39. $\displaystyle\int \cos x - \sin x\,dx$

40. $\displaystyle\int \sin x - \cos x\,dx$

41. $\displaystyle\int \sin(4x+3)\,dx$

42. $\displaystyle\int \frac{x}{\sqrt{x+1}}\,dx$

43. $\displaystyle\int \cos(5-2x)\,dx$

44. $\int 3\sin 2x \, dx$

45. $\int \left(1+\sec^2 x\right)\sin x \, dx$

46. $\int \left(1-2\cos x\right)^2 \, dx$

47. $\int \left(1+\cot^2 x\right)\sec^2 x \, dx$

48. $\int 2x\cos 3x \, dx$

49. $\int \dfrac{3}{(2+x)(1-x)} \, dx$

50. $\int 10(3x+1)^4 \, dx$

51. $\int 6(2x+1)^{\frac{1}{2}} \, dx$

52. $\int \dfrac{1}{\cos^2 x \tan^2 x} \, dx$

53. $\int \cos x \sin x \, dx$

54. $\int \dfrac{2}{\cos^2 x} \, dx$

55. $\int 2+2\tan^2 x \, dx$

56. $\int \dfrac{1+\cos x}{\sin^2 x} \, dx$

57. $\int \dfrac{(1+\cos x)^2}{\sin^2 x} \, dx$

58. $\int x\sin 3x \, dx$

59. $\int \dfrac{2x}{(2x+1)^3} \, dx$

60. $\int (4-5x)^{-1} \, dx$

61. $\int \dfrac{1}{4x} \, dx$

62. $\int \dfrac{1}{(x+1)(x+2)} \, dx$

63. $\int \dfrac{x+1}{x} \, dx$

64. $\int \dfrac{x}{x+1} \, dx$

65. $\int \dfrac{4x}{\sqrt{1-2x^2}} \, dx$

66. $\displaystyle\int \frac{x+1}{9x^2-1}\,dx$

67. $\displaystyle\int x\sin 4x\,dx$

68. $\displaystyle\int \ln x\,dx$

69. $\displaystyle\int \frac{4}{(2x-7)^2}\,dx$

70. $\displaystyle\int 4\cos^2 x\,dx$

71. $\displaystyle\int \left(1+\tan^2 x\right)\sec^2 x\,dx$

72. $\displaystyle\int (1+\tan x)\sec^2 x\,dx$

73. $\displaystyle\int \mathrm{cosec}^2(3x+1)\,dx$

74. $\displaystyle\int 12\sec^2(2x+3)\,dx$

75. $\displaystyle\int \frac{\sin\sqrt{x}}{\sqrt{x}}\,dx$

76. $\displaystyle\int 6e^{2x+2}\,dx$

77. $\displaystyle\int \left(1-\cot^2 x\right)\sec^2 x\,dx$

78. $\displaystyle\int \frac{\sin x-\cos x}{\sin x+\cos x}\,dx$

79. $\displaystyle\int \sec x\tan x\sqrt{1+\sec x}\,dx$

80. $\displaystyle\int \tan 2x\sec 2x\,dx$

81. $\displaystyle\int x^2\ln x\,dx$

82. $\displaystyle\int \frac{6}{x^2-2x-8}\,dx$

83. $\displaystyle\int 3\cot^2 x\,dx$

84. $\displaystyle\int \cos 2x\sin x\,dx$

85. $\displaystyle\int \frac{\sqrt{x^2+4}}{x}\,dx$

86. $\displaystyle\int 7(2x-3)^{\frac{5}{2}}\,dx$

87. $\displaystyle\int \frac{x^2}{4-x^3}\,dx$

88. $\displaystyle\int x\sin\left(\tfrac{1}{2}x\right)\,dx$

89. $\displaystyle\int \frac{4}{4x^2+4x+1}\ dx$

90. $\displaystyle\int \frac{3}{\sqrt{4x+1}}\ dx$

91. $\displaystyle\int \frac{x}{\sqrt{x-1}}\ dx$

92. $\displaystyle\int \frac{1}{3(x-2)^{\frac{1}{2}}}\ dx$

93. $\displaystyle\int \frac{6x+3}{2x}\ dx$

94. $\displaystyle\int \frac{4x+1}{2x-5}\ dx$

95. $\displaystyle\int \frac{4x}{x^2-1}\ dx$

96. $\displaystyle\int \frac{x^2}{2x-1}\ dx$

97. $\displaystyle\int \frac{1+\cos^4 x}{\cos^2 x}\ dx$

98. $\displaystyle\int \frac{17-5x}{(2x+3)(2-x)^2}\ dx$

99. $\displaystyle\int x\sin(2x-1)\ dx$

100. $\displaystyle\int 4(3x-2)^3\ dx$

101. $\displaystyle\int \sqrt{x\sqrt{x}}\ dx$

102. $\displaystyle\int \frac{1}{x^2\sqrt[3]{x^2}}\ dx = -\frac{3}{5}x^{-\frac{5}{3}}+C$

103. $\displaystyle\int \frac{3}{\sqrt{2-4x}}\ dx$

104. $\displaystyle\int \frac{1}{1+\cos 2x}\ dx$

105. $\displaystyle\int \frac{2}{2x-x^2}\ dx$

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

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

108. $\displaystyle\int \frac{2x+1}{2x-1}\ dx$

109. $\displaystyle\int \frac{14x+1}{(1-x)(2x+1)}\ dx$

110. $\displaystyle\int \frac{6x}{\sqrt{2x+3}}\ dx$

111. $\displaystyle\int \frac{\sin^4 x + \cos^2 x}{\sin^2 x}\, dx$

112. $\displaystyle\int \frac{2}{(x-4)\sqrt{x}}\, dx$

113. $\displaystyle\int \frac{1}{2+\sqrt{x-1}}\, dx$

114. $\displaystyle\int \frac{4}{\sqrt{6x-1}}\, dx$

115. $\displaystyle\int \frac{3e^{2x}}{e^{2x}-1}\, dx$

116. $\displaystyle\int x\sec^2 x\, dx$

117. $\displaystyle\int \operatorname{cosec} 2x \cot 2x\, dx$

118. $\displaystyle\int \tan^2 x \sec^2 x\, dx$

119. $\displaystyle\int \sin 2x \operatorname{cosec} x\, dx$

120. $\displaystyle\int (2\cos x - 3\sin x)^2\, dx$

121. $\displaystyle\int \frac{\sin x + \tan x}{\cos x}\, dx$

122. $\displaystyle\int \frac{1+\sin x}{\cos^2 x}\, dx$

123. $\displaystyle\int e^{\sin x}\cos x\, dx$

124. $\displaystyle\int x^2 \sin x\, dx$

125. $\displaystyle\int (2x+1)^3\, dx$

126. $\displaystyle\int \frac{\tan^4 x}{\cos^2 x}\, dx$

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

128. $\displaystyle\int \frac{3x-1}{2x+3}\, dx$

129. $\displaystyle\int \frac{8x^2}{1-2x}\, dx$

130. $\displaystyle\int \frac{10}{(3x+1)^{\frac{3}{2}}}\, dx$

131. $\displaystyle\int 5^x\, dx$

132. $\displaystyle\int \sqrt{\sin x \cos^2 x}\ dx$

133. $\displaystyle\int (2x+1)\sin\left(x^2+x+1\right)\ dx$

134. $\displaystyle\int (2x+1)\left(x^2+x+1\right)\ dx$

135. $\displaystyle\int (x+1)\cos\left(x^2+2x+1\right)\ dx$

136. $\displaystyle\int \frac{1}{2+\sqrt{x}}\ dx$

137. $\displaystyle\int \frac{1}{e^x+e^{-x}+2}\ dx$

138. $\displaystyle\int x^2\tan\left(x^3+1\right)\ dx$

139. $\displaystyle\int x^3\ln\left(x^2+1\right)\ dx$

140. $\displaystyle\int \sin^2 x\sec^2 x\ dx$

141. $\displaystyle\int 3\sec^2 x\sin x\ dx$

142. $\displaystyle\int \frac{1}{x(1+\ln x)^3}\ dx$

143. $\displaystyle\int x^3\ln x\ dx$

144. $\displaystyle\int x\ln\left(2x^3\right)\ dx$

145. $\displaystyle\int 4-\cos^4 x\sin x\ dx$

146. $\displaystyle\int \frac{\cos x}{\sin^3 x}\ dx$

147. $\displaystyle\int \frac{4\sec^2 x}{\tan x}\ dx$

148. $\displaystyle\int \sec^2 x\tan x\sqrt{1+\tan x}\ dx$

149. $\displaystyle\int \frac{\sqrt{1+2\tan x}}{\cos^2 x}\ dx$

150. $\displaystyle\int \tan^2 x\ dx$

151. $\displaystyle\int \frac{(1+\sin x)^2}{\cos^2 x}\ dx$

152. $\displaystyle\int \frac{\cos^2 x}{1+\sin x}\ dx$

153. $\displaystyle\int \frac{1}{1+\cos x}\ dx$

154. $\displaystyle\int \frac{\cos x}{\sqrt{\sin x}}\ dx$

155. $\displaystyle\int \frac{10x^4}{2x^{\frac{5}{2}}+1}\,dx$

156. $\displaystyle\int \sin\sqrt{x}\,dx$

157. $\displaystyle\int \frac{x^2}{1-2x}\,dx$

158. $\displaystyle\int \frac{12}{\left(1-2x\right)^5}\,dx$

159. $\displaystyle\int \frac{x^4+2x}{x^5+5x^2+8}\,dx$

160. $\displaystyle\int \frac{x}{x-1}\,dx$

161. $\displaystyle\int \frac{1}{\left(1+\sqrt{x}\right)\sqrt{x}}\,dx$

162. $\displaystyle\int \frac{2x^3+1}{x^4+2x}\,dx$

163. $\displaystyle\int \frac{x+2}{x(x+1)}\,dx$

164. $\displaystyle\int \sin x \ln(\sec x)\,dx$

165. $\displaystyle\int \frac{(1+2\cos x)^2}{3\sin^2 x}\,dx$

166. $\displaystyle\int \frac{1}{x\ln x}\,dx$

167. $\displaystyle\int (2-3x)^{-2}\,dx$

168. $\displaystyle\int 2\sec^2 x + \frac{1}{2}\sin 2x\,dx$

169. $\displaystyle\int \frac{\ln x}{\sqrt{x}}\,dx$

170. $\displaystyle\int \frac{\cos^4 x}{\sin x}\,dx$

171. $\displaystyle\int 6\tan^2 x - \sec^2 x\,dx$

172. $\displaystyle\int 6\cos^4 x - 2\sin^2 x\,dx$

173. $\displaystyle\int \sin 4x\cos 4x\,dx$

174. $\displaystyle\int \frac{1}{\csc x - \cot x}\,dx$

175. $\displaystyle\int \frac{x^2}{\sqrt{x-1}}\,dx$

176. $\displaystyle\int \frac{3e^{2x}}{\sqrt{e^x-1}}\,dx$

177. $\displaystyle\int \frac{1}{\left(2+\sqrt[3]{x}\right)\sqrt[3]{x^2}}\ dx$

178. $\displaystyle\int \frac{4x^7}{x^4+1}\ dx$

179. $\displaystyle\int \frac{x}{9x^2+1}\ dx$

180. $\displaystyle\int \frac{2}{x+\sqrt[3]{x}}\ dx$

181. $\displaystyle\int \frac{3x}{1+\sqrt{x}}\ dx$

182. $\displaystyle\int \frac{3x^2+2}{4x+1}\ dx$

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

184. $\displaystyle\int 2\sin 2x\cos^2 x\ dx$

185. $\displaystyle\int \frac{10x^2-23x+11}{(2-3x)(2x-1)^2}\ dx$

186. $\displaystyle\int \frac{\sec x}{\sec x-\tan x}\ dx$

187. $\displaystyle\int x\cos 6x\ dx$

188. $\displaystyle\int \sin x\sin 3x\ dx$

189. $\displaystyle\int 4\cos 3x+\frac{1}{2}\sin 3x\ dx$

190. $\displaystyle\int \sin^2 6x\ dx$

191. $\displaystyle\int \frac{\cos 2x}{1-\cos^2 2x}\ dx$

192. $\displaystyle\int \frac{1}{\cos^2 x\tan^2 x}\ dx$

193. $\displaystyle\int 3\cos^3 3x\ dx$

194. $\displaystyle\int 3\sec^4 x\ dx$

195. $\displaystyle\int 2\sin x\cos 3x\ dx$

196. $\displaystyle\int \frac{2\sin x}{\cos x+\sin x}\ dx$

197. $\displaystyle\int \frac{4}{2x-1}+\frac{1}{3-4x}\ dx$

198. $\displaystyle\int x^2\sin 3x\ dx$

199. $\displaystyle\int \text{cosec}^2 2x\ dx$

200. $\displaystyle\int \sin^3 2x \cos 2x \ dx$

201. $\displaystyle\int \cot^2 3x \ dx$

202. $\displaystyle\int \frac{7}{3x} \ dx$

203. $\displaystyle\int \frac{\sin x \cos x}{\sqrt{1-\cos 2x}} \ dx$

204. $\displaystyle\int \frac{\sin x \cos x}{1+\cos 2x} \ dx$

205. $\displaystyle\int 4(3-2x)^5 \ dx$

206. $\displaystyle\int \frac{1+\sin x}{\cos x} \ dx$

207. $\displaystyle\int \sin 2x \sec x \ dx$

208. $\displaystyle\int \sin 2x \sin x \ dx$

209. $\displaystyle\int x \cos^2 x \ dx$

210. $\displaystyle\int \sin(x+1)^{\frac{1}{3}} \ dx$

211. $\displaystyle\int \frac{1-\ln x}{x^2} \ dx$

212. $\displaystyle\int 4x e^{-\frac{2}{3}x} \ dx$

213. $\displaystyle\int \left(e^x + x\right)^2 \ dx$

214. $\displaystyle\int \frac{e^{4x}-e^{-x}}{e^{2x}} \ dx$

215. $\displaystyle\int \frac{e^{\ln x}}{x} \ dx$

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

217. $\displaystyle\int \frac{\cos(\ln x)}{x} \ dx$

218. $\displaystyle\int \frac{4x e^{2x^2}}{\sqrt{1+2e^{2x^2}}} \ dx$

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

220. $\displaystyle\int \frac{1}{\cos^2 x \tan x} \ dx$

221. $\displaystyle\int \frac{\sin 2x}{1+\cos x} \ dx$

222. $\displaystyle\int \sin^3 x \ dx$

223. $\displaystyle\int \frac{1}{3}\sin 2x - \frac{1}{2}\cos 3x \ dx$

224. $\displaystyle\int \frac{3x}{\sqrt{4-2x^2}} \ dx$

225. $\displaystyle\int \frac{1}{\sin x \cos^2 x} \ dx$

226. $\displaystyle\int \frac{3x}{4-2x^2} \ dx$

227. $\displaystyle\int \frac{1-4x}{x\left(4x-\ln x\right)^{\frac{3}{2}}} \ dx$

228. $\displaystyle\int \frac{\sin x}{\cos^4 x} \ dx$

229. $\displaystyle\int \frac{\csc^2 x}{1+\cot x} \ dx$

230. $\displaystyle\int x^2 \cos\left(\frac{1}{4}x\right) \ dx$

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

232. $\displaystyle\int \frac{1}{\left(\sqrt{x}-2\right)\left(\sqrt{x}+2\right)} \ dx$

233. $\displaystyle\int \frac{4-3x}{2x+1} \ dx$

234. $\displaystyle\int \left(1+\frac{1}{x}\right)\sqrt{x} \ dx$

235. $\displaystyle\int \frac{\sec x}{\cos x - \sin x} \ dx$

236. $\displaystyle\int \frac{x^2-2}{x^2-1} \ dx$

237. $\displaystyle\int \frac{1}{x^3-x^2} \ dx$

238. $\displaystyle\int \frac{6x^2}{2x^{\frac{3}{2}}-1} \ dx$

239. $\displaystyle\int \frac{1}{1+\sqrt{x-1}} \ dx$

240. $\displaystyle\int \frac{x+1}{x-5} \ dx$

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

242. $\displaystyle\int 4e^{-2x} - \frac{1}{3}\sin 3x \ dx$

243. $\displaystyle\int 2x\sec^2 2x \ dx$

244. $\displaystyle\int \cos x \sin^8 x \ dx$

245. $\displaystyle\int \frac{\sin^5 x}{\cos^7 x}\ dx$

246. $\displaystyle\int \tan 3x\ dx$

247. $\displaystyle\int \frac{1}{\sec x - 1}\ dx$

248. $\displaystyle\int \frac{\sin^2 x}{\cos^4 x}\ dx$

249. $\displaystyle\int \frac{\sin x \cos x}{1 - \cos x}\ dx$

250. $\displaystyle\int \frac{(4x-1)^{-1}}{4}\ dx$

251. $\displaystyle\int \frac{e^{2x} - 2e^x}{e^x + 1}\ dx$

252. $\displaystyle\int \frac{2x^2 - 3x + 2}{x - 1}\ dx$

253. $\displaystyle\int 1 - \cot^2 x\ dx$

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

255. $\displaystyle\int \operatorname{cosec}^4 x\ dx$

256. $\displaystyle\int x^2\, e^{\frac{1}{2}x}\ dx$

257. $\displaystyle\int \left(e^x + 2e^{-x}\right)^2\ dx$

258. $\displaystyle\int e^x \sin\left(e^x\right)\ dx$

259. $\displaystyle\int x e^2\ dx$

260. $\displaystyle\int \left(2\cos x - 3\right)^2\ dx$

261. $\displaystyle\int \frac{x^2}{x - 2}\ dx$

262. $\displaystyle\int \frac{(x+1)e^{\frac{1}{x}}}{x^3}\ dx$

263. $\displaystyle\int \frac{\sqrt{4x+1}}{x}\ dx$

264. $\displaystyle\int \frac{1}{\left(1 - x^2\right)^{\frac{3}{2}}}\ dx$

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

266. $\displaystyle\int (2x-1)\sqrt{2x-3}\ dx$

267. $\displaystyle\int \frac{9x^5}{\sqrt{x^3+1}} \, dx$

268. $\displaystyle\int \left(3\sin x - \cos x\right)^2 \, dx$

269. $\displaystyle\int \frac{4x}{x^2-10} \, dx$

270. $\displaystyle\int \frac{4\mathrm{e}^{3x}}{1-\mathrm{e}^{3x}} \, dx$

271. $\displaystyle\int \left(1-\cos x\right)\sin x\cos x \, dx$

272. $\displaystyle\int \left(\tan x - 1\right)^2 \, dx$

273. $\displaystyle\int \frac{1+\mathrm{e}^x}{1-\mathrm{e}^x} \, dx$

274. $\displaystyle\int \sin 2x\cos^4 2x \, dx$

275. $\displaystyle\int \frac{1}{\sin x\cos x} \, dx$

276. $\displaystyle\int \frac{1}{\sin^2 x\cos x} \, dx$

277. $\displaystyle\int \frac{1}{1-\sin x} \, dx$

278. $\displaystyle\int \frac{1}{\mathrm{e}^x+1} \, dx$

279. $\displaystyle\int \left(1+\sin x\right)\sin 2x \, dx$

280. $\displaystyle\int x\sec x\tan x \, dx$

281. $\displaystyle\int \sin 3x\cos 2x \, dx$

282. $\displaystyle\int \frac{1-2x}{x\left(2x-\ln x\right)^2} \, dx$

283. $\displaystyle\int x^2 \mathrm{e}^{-\frac{1}{4}x} \, dx$

284. $\displaystyle\int \frac{x+4}{x-4} \, dx$

285. $\displaystyle\int 3x^2\left(4-2x^3\right)^{\frac{3}{2}} \, dx$

286. $\displaystyle\int x\sqrt{x+1} \, dx$

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

288. $\displaystyle\int \sin 2x\cos x \, dx$

289. $\displaystyle\int \sin 2x\cos 2x \, dx$

290. $\displaystyle\int \frac{3^x}{3^x+1} \, dx$

291. $\displaystyle\int \frac{\tan x}{\tan x - \sec x}\, dx$

292. $\displaystyle\int \frac{(\ln x)^2}{x}\, dx$

293. $\displaystyle\int \frac{8(x^2+1)}{(x-3)(x+1)^2}\, dx$

294. $\displaystyle\int \sqrt[3]{x\sqrt{\frac{1}{x}}}\, dx$

295. $\displaystyle\int (x+1)(x^2+2x-1)^4\, dx$

296. $\displaystyle\int \sin x \cos^4 x\, dx$

297. $\displaystyle\int \frac{2x+6}{x^2+6x+1}\, dx$

298. $\displaystyle\int \frac{1}{x(x-4)}\, dx$

299. $\displaystyle\int \frac{\tan x}{\sqrt{1+\cos 2x}}\, dx$

300. $\displaystyle\int \cos^2 x \sin^2 x\, dx$

301. $\displaystyle\int \frac{3x^3+5x}{x^2+1}\, dx$

302. $\displaystyle\int \sin^2 2x\, dx$

303. $\displaystyle\int \frac{\cos 2x}{\cos^2 x}\, dx$

304. $\displaystyle\int \sec^3 x \tan x\, dx$

305. $\displaystyle\int x\left[(\ln x)^2 - 1\right]\, dx$

306. $\displaystyle\int \frac{x^2}{x^3+5}\, dx$

307. $\displaystyle\int \frac{2x+1}{3x-1}\, dx$

308. $\displaystyle\int x(3+x^2)^4\, dx$

309. $\displaystyle\int \frac{9}{x^2\sqrt{9-x^2}}\, dx$

310. $\displaystyle\int \frac{\cos x}{\sqrt{\sin^3 x}}\, dx$

311. $\displaystyle\int \frac{x-3}{\sqrt{x+1}-2}\, dx$

312. $\displaystyle\int \frac{x-4}{x^2-4}\, dx$

313. $\displaystyle\int \frac{2\sin x}{\cos x + \sin x}\, dx$

314. $\displaystyle\int \left(1-x^{-2}\right)^2 \ dx$

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

316. $\displaystyle\int \left(3\sin x + \cos x\right)^2 \ dx$

317. $\displaystyle\int \frac{\sec^2 x}{\left(1+\tan x\right)^3} \ dx$

318. $\displaystyle\int \frac{1}{\cos^2 x \sin^2 x} \ dx$

319. $\displaystyle\int \cot 2x \ dx$

320. $\displaystyle\int 2^x \ dx$

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

322. $\displaystyle\int \frac{1}{\cos^4 x} \ dx$

323. $\displaystyle\int \frac{\sin x \cos x}{\sqrt{1+\cos 2x}} \ dx$

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

325. $\displaystyle\int \sin x \cos^2 \left(\tfrac{1}{2}x\right) \ dx$

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

327. $\displaystyle\int \frac{\sqrt{x}}{x-1} \ dx$

328. $\displaystyle\int 2^x \, 3^x \ dx$

329. $\displaystyle\int 3^{2x+1} \ dx$

330. $\displaystyle\int \frac{2x^{\frac{3}{2}}+1}{x^{\frac{5}{2}}+2x} \ dx$

331. $\displaystyle\int \frac{1}{x\left(1+\sqrt{x}\right)} \ dx$

332. $\displaystyle\int \frac{\sqrt{x}}{\sqrt{x}-1} \ dx$

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

334. $\displaystyle\int \sin^4 x \sin 2x \ dx$

335. $\displaystyle\int \left(\tan x + \cot x\right)^2 \ dx$

336. $\displaystyle\int \frac{x^2+2x-2}{x^2-2x+2} \ dx$

337. $\displaystyle\int x\sin x\cos x\ dx$

338. $\displaystyle\int \sec x\tan^3 x\ dx$

339. $\displaystyle\int \frac{1}{\operatorname{cosec} x - \cot x}\ dx$

340. $\displaystyle\int \frac{2x^{\frac{1}{4}}+1}{4x^{\frac{5}{4}}+4x}\ dx$

341. $\displaystyle\int \frac{\ln(x-1)}{\sqrt{x}}\ dx$

342. $\displaystyle\int e^{x+e^x}\ dx$

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

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

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

346. $\displaystyle\int \sqrt{x}\,e^{\sqrt{x}}\ dx$

347. $\displaystyle\int \frac{4x^2-x+1}{(x-1)(2x-1)}\ dx$

348. $\displaystyle\int e^x\cos x\ dx$

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

350. $\displaystyle\int \frac{3x^5}{x^3-1}\ dx$

351. $\displaystyle\int \frac{x-2}{x^2-4x-2}\ dx$

352. $\displaystyle\int \frac{1}{(x-1)\sqrt{x^2-1}}\ dx$

353. $\displaystyle\int \frac{3x^3-x^2+10x-3}{x^2+3}\ dx$

354. $\displaystyle\int \frac{4}{\left(4+x^2\right)^{\frac{3}{2}}}\ dx$

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

356. $\displaystyle\int \frac{\cos x+\tan x}{1+\tan^2 x}\ dx$

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

358. $\displaystyle\int \frac{4x^3\sqrt{x^4+1}}{1+\sqrt{x^4+1}}\ dx$

359. $\displaystyle\int (\ln x)^2\ dx$

360. $\displaystyle\int \sqrt{18\cos x \sin 2x}\ dx$

361. $\displaystyle\int \frac{1}{\sqrt{x^5+x^2}}\ dx$

362. $\displaystyle\int \sqrt{\sin^2 x + (\cos x - 1)^2}\ dx$

363. $\displaystyle\int x(\sin x + \cos x)\ dx$

364. $\displaystyle\int \left(\frac{1}{x^2}+\frac{1}{x^3}\right)e^{\frac{1}{x}}\ dx$

365. $\displaystyle\int \frac{\sec^4 x}{\sqrt{\tan x}}\ dx$

366. $\displaystyle\int \frac{\cos x}{(\cos x + \sin x)^3}\ dx$

367. $\displaystyle\int \frac{20x}{4-x^2}\ dx$

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

369. $\displaystyle\int x\left(\sec^2 x - \mathrm{cosec}^2 x\right)\ dx$

370. $\displaystyle\int \frac{4x^2+4x}{\sqrt{2x+1}}\ dx$

371. $\displaystyle\int x\tan^2 x\ dx$

372. $\displaystyle\int x\cos^2 3x\ dx$

373. $\displaystyle\int \cos x(6\sin x - 2\sin 3x)^{\frac{2}{3}}\ dx$

374. $\displaystyle\int \sqrt{x^2-x^4}\ dx$

375. $\displaystyle\int \frac{x+3}{\sqrt[3]{x^2+6x}}\ dx$

376. $\displaystyle\int \frac{1-x}{1-\sqrt{x}}\ dx$

377. $\displaystyle\int \frac{1}{\mathrm{cosec}\,2x - \cot 2x}\ dx$

378. $\displaystyle\int \sec^3 x \tan^5 x\ dx$

379. $\displaystyle\int \frac{\cosh x}{(\cosh x + \sinh x)^3}\ dx$

380. $\displaystyle\int \cos x \cos^2 3x \, dx$

381. $\displaystyle\int \frac{1}{\sqrt{x^{\frac{3}{2}}+4x}} \, dx$

382. $\displaystyle\int \frac{2}{\left(\cos x + 2\sin x\right)^2} \, dx$

383. $\displaystyle\int \ln\left(\frac{1}{6}x+2\right) dx$

384. $\displaystyle\int \frac{3x}{1+\sqrt{x-1}} \, dx$

385. $\displaystyle\int \frac{1}{x\left(x^3-1\right)} \, dx$

386. $\displaystyle\int x^5\left(1-x^3\right)^{\frac{1}{2}} dx$

387. $\displaystyle\int \frac{1}{x^{\frac{1}{2}}-x^{\frac{1}{4}}} \, dx$

388. $\displaystyle\int \frac{1}{2x^2-2x+1} \, dx$

389. $\displaystyle\int \frac{1}{\sqrt{-x^2-2x}} \, dx$

390. $\displaystyle\int \frac{1}{\sqrt{9x^2+12x+5}} \, dx$

391. $\displaystyle\int \frac{1}{\sqrt{16x^2-8x}} \, dx$

392. $\displaystyle\int \sqrt{\frac{x}{1-x}} \, dx$

393. $\displaystyle\int \frac{4x^2}{4x^2+1} \, dx$

394. $\displaystyle\int e^{\cos x} \sin x \cos x \, dx$

395. $\displaystyle\int \left(9-4\sin^2 x\right)^{\frac{1}{2}} \sin x \, dx$

396. $\displaystyle\int \frac{2}{x+\sqrt{1-x^2}} \, dx$

397. $\displaystyle\int \frac{1}{\sqrt{x+1}+\sqrt{x-1}} \, dx$

398. $\displaystyle\int \cosh 2x \, dx$

399. $\displaystyle\int e^x\left(\tan x + \sec^2 x\right) dx$

400. $\displaystyle\int \frac{\sqrt{x+1}}{x+5} \, dx$

401. $\displaystyle\int \frac{1}{x\sqrt{x^2-1}}\,dx$

402. $\displaystyle\int (1-\cos x)\sqrt{(1+\cos x)^2 + \sin^2 x}\,dx$

403. $\displaystyle\int \frac{x+3}{x^2+1}\,dx$

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

405. $\displaystyle\int \frac{1}{x^2+x+1}\,dx$

406. $\displaystyle\int \frac{9}{\left(9-x^2\right)^{\frac{3}{2}}}\,dx$

407. $\displaystyle\int \frac{2}{x^3-x}\,dx$

408. $\displaystyle\int \frac{1}{\sqrt{x^2+36}}\,dx$

409. $\displaystyle\int \frac{x^2}{\sqrt{1-x^2}}\,dx$

410. $\displaystyle\int \frac{\sqrt{x}}{x+1}\,dx$

411. $\displaystyle\int \frac{1}{9x^2+64}\,dx$

412. $\displaystyle\int \frac{x}{\sqrt{x^2+1}}\,dx$

413. $\displaystyle\int \frac{x^2}{\sqrt{x^2+1}}\,dx$

414. $\displaystyle\int x^3\left(1-x^2\right)^{\frac{1}{2}}\,dx$

415. $\displaystyle\int \sinh x \cosh x\,dx$

416. $\displaystyle\int \frac{4^x + 2\times 16^x}{1+16^x}\,dx + C$

417. $\displaystyle\int \frac{\sin x}{\cos x + \cos^3 x}\,dx$

418. $\displaystyle\int \sinh\sqrt{x}\,dx$

419. $\displaystyle\int \frac{\operatorname{sech} x}{\cosh x - \sinh x}\,dx$

420. $\displaystyle\int \frac{1+\sin x}{1-\sin x}\,dx$

421. $\displaystyle\int \frac{4}{\left(x^2-4\right)^{\frac{3}{2}}}\,dx$

422. $\displaystyle\int 4\sinh\left(\tfrac{1}{4}x\right)\,dx$

423. $\displaystyle\int \frac{1-\cos x}{1+\cos x}\,dx$

424. $\displaystyle\int \frac{1}{5+4\cos x}\,dx$

425. $\displaystyle\int \cosh^2 2x\,dx$

426. $\displaystyle\int \frac{1}{\sqrt{3+2x-x^2}}\,dx$

427. $\displaystyle\int \frac{1}{1+\sin 2x}\,dx$

428. $\displaystyle\int \frac{588}{4x^2+49}\,dx$

429. $\displaystyle\int \frac{x+1}{x^2+9}\,dx$

430. $\displaystyle\int \sqrt{e^x-1}\,dx$

431. $\displaystyle\int \frac{\sqrt{e^x}}{\sqrt{e^x+e^{-x}}}\,dx$

432. $\displaystyle\int \sqrt{1-e^{2x}}\,dx$

433. $\displaystyle\int \frac{16}{\left(x^2+4\right)^{\frac{5}{2}}}\,dx$

434. $\displaystyle\int \sqrt{\left(1-x^2\right)^3}\,dx$

435. $\displaystyle\int \cosh x\arctan(\sinh x)\,dx$

436. $\displaystyle\int \sec x\,dx$

437. $\displaystyle\int \frac{1}{\sec x-1}\,dx$

438. $\displaystyle\int \frac{\sin x}{1-\tan x}\,dx$

439. $\displaystyle\int \frac{\cos x}{\cos^2 x+4\sin x-5}\,dx$

440. $\displaystyle\int \frac{2\cos x}{\cos x+\sin x}\,dx$

441. $\displaystyle\int \frac{18}{\left(\cos^2 x+4\sin x-5\right)\cos x}\,dx$

442. $\displaystyle\int \frac{\tan x}{1+\sin^2 x}\,dx$

443. $\displaystyle\int (x+1)e^{x+1}\,dx$

444. $\displaystyle\int \tan x \sec^4 x \ dx = \frac{1}{4}\sec^4 x + C$

445. $\displaystyle\int \frac{4}{(1-\sin x)\cos x} \ dx$

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

447. $\displaystyle\int \frac{4x+1}{\sqrt{4x^2-9}} \ dx$

448. $\displaystyle\int 8x\ln(2x+1) \ dx$

449. $\displaystyle\int \cos 3x \sin 6x \ dx$

450. $\displaystyle\int \frac{4}{3+5\cos x} \ dx$

451. $\displaystyle\int \arctan x \ dx$

452. $\displaystyle\int \frac{4\cot x}{1+\cos^2 x} \ dx$

453. $\displaystyle\int \frac{18}{\left(x^2+9\right)^2} \ dx$

454. $\displaystyle\int e^x \cosh x \ dx$

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

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

457. $\displaystyle\int \frac{9}{e^x\sqrt{e^{2x}-9}} \ dx$

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

459. $\displaystyle\int \frac{1-3x^3}{\sqrt{1-x^2}} \ dx$

460. $\displaystyle\int \frac{8}{\left(1+x^2\right)^3} \ dx$

461. $\displaystyle\int \frac{x^4}{\sqrt{x^{10}-1}} \ dx$

462. $\displaystyle\int \frac{4}{e^x\sqrt{e^{2x}+4}} \ dx$

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

464. $\displaystyle\int x\,\text{arcosh}\,x\ dx$

465. $\displaystyle\int \left(x^3+5x^2-2\right)e^{2x}\ dx$

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

467. $\displaystyle\int \sqrt{\frac{1+x}{1-x}}\ dx$

468. $\displaystyle\int \sqrt[3]{3\sin 2x-2\sin 3x\cos x}\ dx$

469. $\displaystyle\int \frac{25}{25+x^2}\ dx$

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

471. $\displaystyle\int \frac{1}{x^2-4}\ dx$

472. $\displaystyle\int 4\coth^2 2x\ dx$

473. $\displaystyle\int \frac{x^2}{\sqrt{x^2-16}}\ dx$

474. $\displaystyle\int \frac{\arctan x}{1+x^2}\ dx$

475. $\displaystyle\int \frac{1}{\sqrt{25-9x^2}}\ dx$

476. $\displaystyle\int \frac{\sqrt{x+2}}{\sqrt{x-1}}\ dx$

477. $\displaystyle\int \frac{e^x}{\sqrt{e^{2x}-9}}\ dx$

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

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

480. $\displaystyle\int \frac{2}{\cos x\sin^3 x}\ dx$

481. $\displaystyle\int \frac{1}{1+\sin x+\cos x}\ dx$

482. $\displaystyle\int \frac{4e^{3x}}{1+e^{2x}}\ dx$

483. $\displaystyle\int \frac{e^x}{\sqrt{9-e^{2x}}}\ dx$

484. $\displaystyle\int \frac{\cos x}{\sqrt{1+\sin^2 x}}\ dx$

485. $\displaystyle\int \frac{1}{\left(e^x+1\right)\left(e^x-1\right)}\ dx$

486. $\displaystyle\int \frac{x^2}{\left(1-x^2\right)^{\frac{3}{2}}}\ dx$

487. $\displaystyle\int \frac{1}{5\cosh x + 4\sinh x}\ dx$

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

489. $\displaystyle\int \sqrt{\frac{1-\cos x}{1-\sin x}}\ dx$

490. $\displaystyle\int \frac{3\sin x - \cos x + 3}{\cos x + \sin x}\ dx$

491. $\displaystyle\int \frac{4x-1}{\sqrt{x^2+16}}\ dx$

492. $\displaystyle\int \frac{1}{4x^2+4x+2}\ dx$

493. $\displaystyle\int \frac{1}{1+8\sin^2 x}\ dx$

494. $\displaystyle\int \frac{1}{\sqrt{\sin x\cos^3 x}}\ dx$

495. $\displaystyle\int \frac{\sin x}{16+9\cos^2 x}\ dx$

496. $\displaystyle\int \sinh^4 x \coth x\ dx$

497. $\displaystyle\int \frac{5\cos x - \sin x}{3\cos x + 2\sin x}\ dx$

498. $\displaystyle\int \frac{3x-4}{x^2+2x+17}\ dx$

499. $\displaystyle\int \frac{x+4}{\sqrt{x^2+8x+3}}\ dx$

500. $\displaystyle\int \operatorname{arsinh}\left(\sqrt{x}\right)\ dx$

501. $\displaystyle\int \frac{1}{2x^2+7x+3}\ dx$

502. $\displaystyle\int \frac{10\sinh 2x}{\cosh^2 2x}\ dx$

503. $\displaystyle\int x\arctan x\ dx$

504. $\displaystyle\int \frac{\sin\left(\ln x\right)}{x^2}\ dx$

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

506. $\displaystyle\int x\left(2^x\right)\ dx$

507. $\displaystyle\int e^{2x}\sinh x \ dx = \frac{1}{6}e^{3x} - \frac{1}{2}e^{x} + C$

508. $\displaystyle\int \frac{x^2}{\left(x^2+8\right)^{\frac{3}{2}}} \ dx$

509. $\displaystyle\int \ln\left(1+x^2\right) \ dx$

510. $\displaystyle\int \frac{\cosh 3x}{\sinh^2 3x} \ dx$

511. $\displaystyle\int \frac{4}{5-3\cos x} \ dx$

512. $\displaystyle\int \sinh^2 x \ dx$

513. $\displaystyle\int \operatorname{sech}^2 4x \ dx$

514. $\displaystyle\int \frac{1}{\sqrt{64+9x^2}} \ dx$

515. $\displaystyle\int \frac{8}{\sqrt{16x^2-1}} \ dx$

516. $\displaystyle\int \frac{1}{\sqrt{x}\cos^2\sqrt{x}} \ dx$

517. $\displaystyle\int \frac{6}{\left(1+\cos x\right)^2} \ dx$

518. $\displaystyle\int \sin^3 x\sqrt{\left(\cos^2 x\sin x\right)^2+\left(\sin^2 x\cos x\right)^2} \ dx$

519. $\displaystyle\int \frac{3x^2-2x+5}{\left(x+3\right)^2} \ dx$

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

521. $\displaystyle\int \frac{\sqrt{25-x^2}}{x} \ dx$

522. $\displaystyle\int \frac{1}{\sqrt{5-4x-x^2}} \ dx$

523. $\displaystyle\int e^x \sin x \ dx$

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

525. $\displaystyle\int x^3\, e^{x^2}\sin x \ dx$

526. $\displaystyle\int \frac{\tan\sqrt{x}}{\sqrt{x}} \ dx$

527. $\displaystyle\int \frac{x+2}{(x-2)^2\sqrt{x}}\,dx$

528. $\displaystyle\int \frac{1}{\sqrt{1+e^x}}\,dx$

529. $\displaystyle\int \operatorname{cosec}^3 x\,dx$

530. $\displaystyle\int \frac{1}{e^{2x}-3e^x}\,dx$

531. $\displaystyle\int \frac{\cosh x}{1+\sinh x}\,dx$

532. $\displaystyle\int \frac{1}{6\sinh 2x\,+\,9\cosh 2x}\,dx$

533. $\displaystyle\int \sqrt{1+4\sinh^2 x\cosh^2 x}\,dx$

534. $\displaystyle\int \frac{\operatorname{arsinh} x}{\sqrt{x^2+1}}\,dx$

535. $\displaystyle\int \frac{x}{\sqrt{x^2+1}}\,dx$

536. $\displaystyle\int \sqrt{x^2+4}\,dx$

537. $\displaystyle\int \frac{1}{4x^{\frac{1}{2}}\left(1+x^{\frac{1}{4}}\right)}\,dx$

538. $\displaystyle\int \frac{6x^2}{\sqrt{1-4x^6}}\,dx$

539. $\displaystyle\int \frac{x^2}{\sqrt{1-x^2}}\,dx$

540. $\displaystyle\int \frac{1}{\sqrt{4-x^2}}\,dx$

541. $\displaystyle\int \left(1-\frac{1}{x}\right)^2+\left(\frac{2}{\sqrt{x}}\right)^2\,dx$

542. $\displaystyle\int \sqrt{x^2-4}\,dx$

543. $\displaystyle\int \frac{1}{x+\sqrt{x^2+1}}\,dx$

544. $\displaystyle\int \frac{1}{\sqrt{x^2+9}}\,dx$

545. $\displaystyle\int \frac{1}{\sqrt{x}\sqrt{1+\sqrt{x}}}\,dx$

546. $\displaystyle\int \frac{1}{x\left(1+x^2\right)^3}\,dx$

547. $\displaystyle\int \frac{\sin x \cos x}{\cos^2 x + 3\cos x + 2}\,dx$

548. $\displaystyle\int \sin\left(\ln x\right)\,dx$

549. $\displaystyle\int -\sinh\left(\tfrac{1}{2}x\right)\,dx$

550. $\displaystyle\int \left(\cos x\right)\left[\ln\left(\sin x\right)\right]\,dx$

551. $\displaystyle\int \sqrt{1-x^2}\,dx$

552. $\displaystyle\int \frac{3}{x^2-4x+13}\,dx$

553. $\displaystyle\int \frac{\sin x}{\cos^5 x}\,dx$

554. $\displaystyle\int 3\tanh^2 x\,dx$

555. $\displaystyle\int \frac{1}{\sqrt{x^2-4x+13}}\,dx$

556. $\displaystyle\int \frac{3}{\sqrt{4-x^4}}\,dx$

557. $\displaystyle\int \frac{1}{\sqrt{16x^2-9}}\,dx$

558. $\displaystyle\int \frac{4}{\left(4x-x^2\right)^{\frac{3}{2}}}\,dx$

559. $\displaystyle\int \cosh\sqrt{x}\,dx$

560. $\displaystyle\int \sinh x\,\text{sech}^2 x\,dx$

561. $\displaystyle\int \frac{1}{\sqrt{2x-x^2}}\,dx$

562. $\displaystyle\int \frac{8}{x^4-1}\,dx$

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

564. $\displaystyle\int \frac{1}{x\sqrt{1-\left(\ln x\right)^2}}\,dx$

565. $\displaystyle\int \frac{6}{\left(1+\cos x\right)^2}\,dx$

566. $\displaystyle\int \frac{x}{1+\sqrt{x}}\,dx$

567. $\displaystyle\int \frac{15}{4\cos x + 3\sin x}\,dx$

568. $\displaystyle\int e^x\left(2\cos x - 3\sin x\right)\,dx$

569. $\displaystyle\int \log_2 x\,dx$

570. $\displaystyle\int \sqrt{1+\cos 3x}\,dx$

571. $\displaystyle\int \frac{x^3}{1+x^8}\,dx$

572. $\displaystyle\int \ln\left(x+\sqrt{x}\right)\,dx$

573. $\displaystyle\int x\sin x \sin 2x\,dx$

574. $\displaystyle\int \frac{\cos x}{\sin x + 2\cos x}\,dx$

575. $\displaystyle\int \sqrt{\frac{x-2}{4-x}}\,dx$

576. $\displaystyle\int \frac{\sinh^3 x}{\cosh^2 x}\,dx$

577. $\displaystyle\int \frac{\sec^2 x}{4+\tan^2 x}\,dx$

578. $\displaystyle\int \frac{4x+5}{x^2+2x+2}\,dx$

579. $\displaystyle\int \frac{1}{(x-2)^{\frac{1}{2}}(4-x)^{\frac{1}{2}}}\,dx$

580. $\displaystyle\int \frac{x^3}{x-2}\,dx$

581. $\displaystyle\int x^5\,e^{x^3}\,dx$

582. $\displaystyle\int \frac{x^2-12x-6}{(x-3)(x^2+2)}\,dx$

583. $\displaystyle\int \sin x \sin^3\left(\tfrac{1}{2}x\right)\,dx$

584. $\displaystyle\int \frac{\cot x}{\sqrt{1-\cos 2x}}\,dx$

585. $\displaystyle\int \tan^5 x \sec x\,dx$

586. $\displaystyle\int \frac{2\cosh x \sinh x}{1+\cosh^4 x}\,dx$

587. $\displaystyle\int \frac{\cos^3 x}{\sin^2 x}\,dx$

588. $\displaystyle\int 5\sin\left(\tfrac{1}{3}x\right)\sqrt{\cos\left(\tfrac{1}{6}x\right)}\,dx$

589. $\displaystyle\int \arcsin\sqrt{x}\ dx$

590. $\displaystyle\int \sqrt{x^2+2x+2}\ dx$

591. $\displaystyle\int \frac{\cos x}{1+\sin^2 x}\ dx$

592. $\displaystyle\int \frac{x^2-2x-2}{1-x^3}\ dx$

593. $\displaystyle\int \frac{3x^3-4x^2+5x-2}{(x-1)(x^2+1)}\ dx$

594. $\displaystyle\int \frac{8x^2-29x-10}{(x^2-x-2)^2}\ dx$

595. $\displaystyle\int \sqrt{\frac{1-x}{1+x}}\ dx$

596. $\displaystyle\int \frac{4\tan x}{1+\cos^2 x}\ dx$

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

598. $\displaystyle\int \frac{1}{(x+1)\sqrt{x+2}}\ dx$

599. $\displaystyle\int \frac{1}{(x+6)(x-2)\sqrt{x+2}}\ dx$

600. $\displaystyle\int \frac{1}{(x^2-1)\sqrt{x}}\ dx$

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

602. $\displaystyle\int \frac{1}{(x+1)\sqrt{x^2+4x+2}}\ dx$

603. $\displaystyle\int \sqrt{36-x^2}\ dx$

604. $\displaystyle\int \frac{x+2}{\left(x^2+4x+1\right)^{\frac{3}{2}}}\ dx$

605. $\displaystyle\int \sqrt{\frac{x}{1-4x}}\ dx$

606. $\displaystyle\int \frac{2}{1+\sin x+2\cos x}\ dx$

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

608. $\displaystyle\int \frac{\ln(2x-1)}{2x-1}\ dx$

609. $\displaystyle\int \cos(\ln x)\ dx$

610. $\displaystyle\int \arcsin x \, dx$

611. $\displaystyle\int \frac{1}{\sqrt{x^2-16}} \, dx$

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

613. $\displaystyle\int \frac{e^{\arcsin x}}{\sqrt{1-x^2}} \, dx$

614. $\displaystyle\int \sqrt{\frac{3+2\sqrt{x}}{4x}} \, dx$

615. $\displaystyle\int \frac{2x+1}{\sqrt{9-x^2}} \, dx$

616. $\displaystyle\int \frac{\sinh x}{\cosh x-1} \, dx$

617. $\displaystyle\int \frac{1}{x\sqrt{1-x^2}} \, dx$

618. $\displaystyle\int \frac{1}{\sqrt{x^2-2x}} \, dx$

619. $\displaystyle\int \frac{3}{(4x+5)\sqrt{1-x^2}-3(1-x^2)} \, dx$

620. $\displaystyle\int \frac{1}{x^2\sqrt{4-x^2}} \, dx$

621. $\displaystyle\int \frac{\arcsin x}{\sqrt{1-x^2}} \, dx$

622. $\displaystyle\int \frac{3}{x\sqrt{3x^2+2x-1}} \, dx$

623. $\displaystyle\int \frac{3}{x\sqrt{x^2+2}} \, dx$

624. $\displaystyle\int \frac{1}{1+\sin^2 x} \, dx$

625. $\displaystyle\int \frac{\sin^2 x}{1+\cos^2 x} \, dx$

626. $\displaystyle\int \frac{2x}{\sqrt{x^4+1}} \, dx$

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

628. $\displaystyle\int \frac{xe^{2x^2}}{\sqrt{1+2e^{2x^2}}} \, dx$

629. $\displaystyle\int \frac{x^5+x-1}{x^3+1} \, dx$

630. $\displaystyle\int \sin^4 x\cos^4 x \, dx$

631. $\displaystyle\int \frac{2}{x\sqrt{x^4-1}}\, dx$

632. $\displaystyle\int \frac{2x}{\sqrt{x^4-1}}\, dx$

633. $\displaystyle\int \frac{\sin^6 x}{\cos^8 x}\, dx$

634. $\displaystyle\int \cot^2 3x \, \operatorname{cosec} 3x \, dx$

635. $\displaystyle\int \frac{6\sinh x}{\sinh x + \cosh x}\, dx$

636. $\displaystyle\int \left(x^2+x^{-4}\right)^{-2}\, dx$

637. $\displaystyle\int \frac{12x-1}{\left(6x^2-x-1\right)\left(6x^2-x+5\right)+10}\, dx$

638. $\displaystyle\int \sqrt{\frac{x}{x-1}}\, dx$

639. $\displaystyle\int \frac{4x^3-12x^2-22x-3}{(4-x)(x+1)}\, dx$

640. $\displaystyle\int x\ln\left(x^2+1\right)\, dx$

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

642. $\displaystyle\int \frac{6}{1+x^3}\, dx$

643. $\displaystyle\int \frac{2\cos x}{\cos x - \sin x}\, dx$

644. $\displaystyle\int \sec^3 x \, dx$

645. $\displaystyle\int \frac{1}{x+x^4}\, dx$

646. $\displaystyle\int \frac{1}{x^2+8x+17}\, dx$

647. $\displaystyle\int x^2\cos^3 x \, dx$

648. $\displaystyle\int \frac{1}{\sqrt{16x^2+1}}\, dx$

649. $\displaystyle\int \frac{1}{2+\cos x}\, dx$

650. $\displaystyle\int \frac{\sin x}{\sin\left(x+\frac{1}{4}\pi\right)}\, dx$

651. $\displaystyle\int \frac{1}{\tanh x + \tan x}\, dx$

652. $\displaystyle\int \frac{(2x+1)^2}{x(x+1)^4}\,dx$

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

654. $\displaystyle\int \frac{1}{x\left(x-\sqrt{x^2-1}\right)}\,dx$

655. $\displaystyle\int \frac{\sqrt{x^2-1}}{x}\,dx$

656. $\displaystyle\int \frac{\left(2+\tan^2 x\right)\sec^2 x}{1+\tan^3 x}\,dx$

657. $\displaystyle\int \frac{1+\sqrt{x+1}}{\sqrt[3]{x+1}+\sqrt{x+1}}\,dx$

658. $\displaystyle\int \operatorname{sech} x \,dx$

659. $\displaystyle\int \frac{2x-3}{\sqrt{x^2-9}}\,dx$

660. $\displaystyle\int \frac{1}{1+\tan x}\,dx$

661. $\displaystyle\int \frac{\sqrt{x}}{1-x^3}\,dx$

662. $\displaystyle\int \sqrt{2^x-1}\,dx$

663. $\displaystyle\int \frac{4\sin 3x}{\left(\cos 7x+\cos x\right)^2+\left(\sin 7x+\sin x\right)^2}\,dx$

664. $\displaystyle\int \frac{4x}{4+x^4}\,dx$

665. $\displaystyle\int \frac{12x^2}{\left(x^2-1\right)^2}\,dx$

666. $\displaystyle\int \frac{2x+x^2\cot x}{x^2+\operatorname{cosec} x}\,dx$

667. $\displaystyle\int \frac{1-\tan x}{1+\tan x}\,dx$

668. $\displaystyle\int \frac{\sqrt{\tan x}}{\sin 2x}\,dx$

669. $\displaystyle\int \frac{16}{\left(x^2+4\right)^2}\,dx$

670. $\displaystyle\int \operatorname{arcsec} x \,dx$

671. $\displaystyle\int \frac{x^2}{1-2\sqrt{x}}\,dx$

672. $\displaystyle\int \frac{1-x}{(1+x)^2 \sqrt{x}}\, dx$

673. $\displaystyle\int 2e^x \sqrt{e^{2x}-1}\, dx$

674. $\displaystyle\int \frac{1}{\sqrt{x}+\sqrt[3]{x}}\, dx$

675. $\displaystyle\int \frac{1}{\sqrt{1-\sin 2x}}\, dx$

676. $\displaystyle\int e^x \left(3\sec^2 x + 2\sec^2 x \tan x + 2\tan x\right) dx$

677. $\displaystyle\int \sqrt[3]{\tan x}\, dx$

678. $\displaystyle\int \frac{x(2-3x)}{x^2+e^{3x}}\, dx$

679. $\displaystyle\int \frac{(x+6)}{(x+2)^2}\, dx$

680. $\displaystyle\int \frac{9}{\left(4x^2-24x+27\right)^{\frac{3}{2}}}\, dx$

681. $\displaystyle\int \frac{\sqrt{x-x^2}}{x^4}\, dx$

682. $\displaystyle\int \frac{16}{\left(x^2-2x+5\right)^2}\, dx$

683. $\displaystyle\int \frac{\tanh x}{\operatorname{sech}^2 x - \tanh^2 x}\, dx$

684. $\displaystyle\int \frac{1}{x\sqrt{x^2+x+4}}\, dx$

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

686. $\displaystyle\int \left(1-x^2\right)^{\frac{5}{2}}\, dx$

687. $\displaystyle\int \frac{x}{x^4+x^2+1}\, dx$

688. $\displaystyle\int \frac{8}{\left(x^2+1\right)^3}\, dx$

689. $\displaystyle\int \frac{1+\cos x}{\sin^2 x}\, dx$

690. $\displaystyle\int \frac{x^4-1}{x^2\sqrt{x^4+1}}\, dx$

691. $\displaystyle\int \frac{x+9}{\left(x^2+2x+2\right)^3}\,dx$

692. $\displaystyle\int \frac{\sec^2 x-1}{\sec^3 x+\tan^3 x}\,dx$

693. $\displaystyle\int \tan x \sec 2x\,dx$

694. $\displaystyle\int \frac{5\cos x}{\left(2+\sin x\right)\left(3+4\sin x\right)}\,dx$

695. $\displaystyle\int \frac{x^2+3x+3}{\left(x+1\right)^3}\left(e^{-x}\sin x\right)\,dx$

696. $\displaystyle\int \frac{\sin^6 x+\cos^6 x}{\sin^2 x\cos^2 x}\,dx$

697. $\displaystyle\int \frac{3\sin^2 x\cos^2 x}{\left(\cos^3 x-\sin^3 x\right)^2}\,dx$

698. $\displaystyle\int \frac{\sin^8 x-\cos^8 x}{1-\frac{1}{2}\sin^2 2x}\,dx$

699. $\displaystyle\int 12x^2 \arctan x\,dx$

700. $\displaystyle\int \sqrt{\tan x}\,dx$

701. $\displaystyle\int \frac{\cot^3 x}{1+2\cot^2 x+2\cot^4 x}\,dx$

702. $\displaystyle\int \left(2x^2+1\right)e^{x^2}\,dx$

703. $\displaystyle\int \left(1+x-\frac{1}{x}\right)e^{x+\frac{1}{x}}\,dx$

704. $\displaystyle\int \frac{1}{\cos^6 x+\sin^6 x}\,dx$

705. $\displaystyle\int \sqrt{e^x-1}\,dx$

706. $\displaystyle\int \frac{1}{\sqrt{e^x-1}}\,dx$

707. $\displaystyle\int \frac{1}{x^4+3x^2+2}\,dx$

708. $\displaystyle\int x\arccos\left[\frac{1-x^2}{1+x^2}\right]\,dx$

709. $\displaystyle\int 2x^2 \sec^2 x\tan x\,dx$

710. $\displaystyle\int \ln\left(\sqrt{x}+\sqrt{x+1}\right)\,dx$

711. $\displaystyle\int \frac{3\sin x+4\cos x}{2\sin x-\cos x}\,dx$

712. $\displaystyle\int \frac{4}{x\sqrt{x^4+1}}\,dx$

713. $\displaystyle\int \frac{\left(3x^2+5x\right)\sqrt{x}}{\left(x+1\right)^2}\,dx$

714. $\displaystyle\int \frac{4}{\left(x^2-4\right)^{\frac{3}{2}}}\,dx$

715. $\displaystyle\int \frac{1}{\left(1-x\right)\sqrt{1-2x}}\,dx$

716. $\displaystyle\int \sqrt{\tan x}-\sqrt{\cot x}\,dx$

717. $\displaystyle\int \sqrt{\left(1+x\right)\left(5-x\right)}\,dx$

718. $\displaystyle\int \sqrt[3]{\frac{8}{x}+\frac{8}{x^3}}\,dx$

719. $\displaystyle\int \frac{1-x}{\sqrt{x}\left(x+1\right)^2}\,dx$

720. $\displaystyle\int 24\sin x\sin 2x\sin 3x\,dx$

721. $\displaystyle\int \frac{\sec^2 x}{\sqrt{\sec x+\tan x}}\,dx$

722. $\displaystyle\int \ln\left(\ln x\right)+\frac{1}{\left(\ln x\right)^2}\,dx$

723. $\displaystyle\int \sqrt{\left(2x+5\right)\left(2x-3\right)}\,dx$

724. $\displaystyle\int \frac{3x}{x-\sqrt{x^2-1}}\,dx$

725. $\displaystyle\int \frac{\left(x^2+1\right)e^x}{\left(x+1\right)^2}\,dx$

726. $\displaystyle\int \frac{\left(x+3\right)\sqrt{x}}{\left(x+1\right)^2}\,dx$

727. $\displaystyle\int \frac{x^2+2}{\left(2\cos x+x\sin x\right)^2}\,dx$

728. $\displaystyle\int \frac{\left[\ln\left(x^2+1\right)-2\ln x\right]\sqrt{x^2+1}}{x^4}\,dx$

729. $\displaystyle\int \frac{\arcsin\sqrt{x}-\arccos\sqrt{x}}{\arcsin\sqrt{x}+\arccos\sqrt{x}}\,dx$

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

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

732. $\displaystyle\int \frac{1}{x^4+1}\,dx$

733. $\displaystyle\int \frac{x^2}{\left(x\cos x-\sin x\right)^2}\,dx$

734. $\displaystyle\int \frac{1}{x^6+1}\,dx$

735. $\displaystyle\int \frac{x^2+1}{x^4-x^2+1}\,dx$

736. $\displaystyle\int \frac{x^2\arctan x}{1+x^2}\,dx$

737. $\displaystyle\int \frac{x}{1+x^4}\,dx$

738. $\displaystyle\int \frac{1}{1-\cot x}\,dx$

739. $\displaystyle\int \frac{\sin\left(x^{-2}\right)}{x^5}\,dx$

740. $\displaystyle\int 3^{\ln x}\,dx$

741. $\displaystyle\int \tan^5 x\,dx$

742. $\displaystyle\int \tan^3 x\sec^3 x\,dx$

743. $\displaystyle\int \sec x\,\operatorname{cosec}^3 x\,dx$

744. $\displaystyle\int \frac{\cos x}{\cos 2x}\,dx$

745. $\displaystyle\int \sec^6 x\,dx$

746. $\displaystyle\int \frac{\ln x}{\sqrt[3]{x}}\,dx$

747. $\displaystyle\int 4x\sqrt{x^4+1}\,dx$

748. $\displaystyle\int \frac{1}{x\left[1+3\sin^2\left(\ln x\right)\right]}\,dx$

749. $\displaystyle\int \ln\left[2x+\sqrt{4x^2-1}\right]dx$

750. $\displaystyle\int \ln\left(x^2-1\right)dx$

751. $\displaystyle\int \frac{e^x\sqrt{e^x-1}}{e^x-2}\,dx$

752. $\displaystyle\int \frac{1}{x^2\sqrt{x^2+1}}\,dx$

753. $\displaystyle\int \frac{\sqrt{x^2+4}}{x^2}\,dx$

754. $\displaystyle\int \frac{1+\cos x}{1-\cos x}\,dx$

755. $\displaystyle\int \tan x \ln(\sec x)\,dx$

756. $\displaystyle\int \frac{\arctan x}{x^2}\,dx$

757. $\displaystyle\int \frac{\sin x \cos x + x \ln x}{x\cos^2 x}\,dx$

758. $\displaystyle\int \frac{x^2\left(x^4+1\right)}{\sqrt[4]{x^4+2}}\,dx$

759. $\displaystyle\int \sqrt{1+\tan x}\,dx$

760. $\displaystyle\int \sqrt{x+\sqrt{x^2+1}}\,dx$

761. $\displaystyle\int \cos(4\arcsin x)\,dx$

762. $\displaystyle\int \cos x \, \operatorname{artanh}(\cos x)\,dx$

763. $\displaystyle\int \frac{\cos x \sin x}{\cos^2 x + \sin^2 x}\,dx$

764. $\displaystyle\int \frac{1}{x^7-x}\,dx$

765. $\displaystyle\int \frac{1}{\sqrt{x^8-x^3}}\,dx$

766. $\displaystyle\int \frac{\sqrt{1-x}}{1-\sqrt{x}}\,dx$

767. $\displaystyle\int \frac{\operatorname{sech}^4 x \, \tanh x}{1-\operatorname{sech}^4 x}\,dx$

768. $\displaystyle\int \frac{1-\sqrt{\arcsin x}}{\sqrt{1-x^2}\,\arcsin x}\,dx$

769. $\displaystyle\int \frac{2e^{2x}+e^x}{e^{4x}+2e^{3x}+e^{2x}+1}\,dx$

770. $\displaystyle\int \frac{1}{(2+x)\sqrt{1-x^2}}\,dx$

771. $\displaystyle\int \frac{4^x+1}{2^x+1}\,dx$

772. $\displaystyle\int \sin 2x \, \sin(\sin x)\,dx$

773. $\displaystyle\int \frac{x^2+1}{\left(x^2-1\right)\sqrt{x^4+1}}\,dx$