INTEGRATION MIX

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

258. $\int \mathrm{e}^x \sin\left(\mathrm{e}^x\right) \, dx$

259. $\int x\mathrm{e}^2 \, dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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. $\int \cot 2x \ dx$

320. $\int 2^x \ dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

348. $\displaystyle\int \mathrm{e}^{x}\cos x\ dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

444. $\displaystyle\int \tan x\sec^4 x\,dx$

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

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

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

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

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. $\displaystyle\int \mathrm{e}^x \cosh x\,dx$

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

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

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

464. $\int x \operatorname{arcosh} x \ dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

523. $\int \mathrm{e}^x \sin x \, dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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. $\displaystyle\int \mathrm{e}^x\left(2\cos x-3\sin x\right)\ dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Created by T. Madas