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

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

Created by T. Madas