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INTEGRATION

MIX

(WITHOUT ANSWERS)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

62. $\int \frac{1}{4x} dx$

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

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

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

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

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

68. $\int \ln x dx$

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

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

71. $\int \sec^2 x (1 + \tan^2 x) dx$

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

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

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

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

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

77. $\int \sec^2 x (1 - \cot^2 x) dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

115.
$$\int x \sec^2 x dx$$

116.
$$\int \frac{3e^{2x}}{e^{2x}-1} dx$$

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

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

119.
$$\int (2 \cos x - 3 \sin x)^2 dx$$

120.
$$\int \sin 2x \operatorname{cosec} x dx$$

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

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

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

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

134.
$$\int (x+1)\cos(x^2+2x+1) dx$$

135.
$$\int (2x+1)(x^2+x+1) dx$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

185. $\int 2\sin 2x \cos^2 x dx$

186. $\int \sin x \sin 3x dx$

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

188. $\int x \cos 5x dx$

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

190. $\int \sin^2 2x dx = \frac{1}{2}x - \frac{1}{8}\sin 4x + C$

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

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

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

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

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

196. $\int \frac{1}{\cos^2 x \tan^4 x} dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

213. $\int (e^x + x)^2 \, dx$

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

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

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

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

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

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

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

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

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

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

224. $\int \frac{1}{3} \sin 2x - \frac{1}{2} \cos 3x \, dx$

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

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

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

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

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

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

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

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

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

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

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

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

237. $\int \frac{\sec x}{\cos x - \sin x} \, dx$

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

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

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

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

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

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

244.
$$\int \cos x \sin^3 x \, dx$$

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

251.
$$\int \frac{(4x-1)^{-1}}{4} \, dx$$

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

253.
$$\int \frac{x^2 + 1}{x^4 - x^2} \, dx$$

254.
$$\int \operatorname{cosec}^4 x \, dx$$

255.
$$\int 1 - \cot^2 x \, dx$$

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

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

258.
$$\int e^x \sin(e^x) \, dx$$

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

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

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

262.
$$\int \frac{\sqrt{4x+1}}{x} \, dx$$

263.
$$\int \frac{(x+1)e^{\frac{1}{x}}}{x^3} \, dx$$

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

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

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

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

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

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

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

274.
$$\int \frac{1}{e^x+1} \, dx$$

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

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

277.
$$\int \sin 3x \cos 2x \, dx$$

278.
$$\int \sin 2x \cos^4 2x \, dx$$

279.
$$\int \frac{1}{1-\sin x} \, dx$$

280.
$$\int \sin 2x(1+\sin x) \, dx$$

281.
$$\int x \sec x \tan x \, dx$$

282.
$$\int \frac{1-2x}{x(4x-\ln x)^2} \, dx$$

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

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

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

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

292.
$$\int \sqrt[3]{x} \sqrt{\frac{1}{x}} \, dx$$

293.
$$\int \frac{\tan x}{\sec x - \tan x} \, dx$$

294.
$$\int \frac{8(x^2+1)}{(x-3)(x+1)^2} \, dx$$

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

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

297.
$$\int \frac{3x^3+5x}{x^2+1} \, dx$$

298.
$$\int \frac{2x+6}{x^2+6x+1} \, dx$$

299.
$$\int \frac{1}{x(x-2)} \, dx$$

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

301.
$$\int \frac{\cos 2x}{\cos^2 x} \, dx$$

302.
$$\int \frac{\tan x}{\sqrt{1+\cos 2x}} \, dx$$

303.
$$\int \sec^3 x \tan x \, dx$$

304.
$$\int \cos^2 x \sin^2 x \, dx$$

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

306.
$$\int \frac{x^2}{x^3+1} \, dx$$

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

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

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

310.
$$\int \frac{x-3}{\sqrt{x+1}-2} \, dx$$

311.
$$\int \frac{1}{x^2 - 4} dx$$

312.
$$\int \frac{\cos x}{\sqrt{\sin^3 x}} dx$$

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

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

315.
$$\int \cos x \sqrt{\sin x} dx$$

316.
$$\int (\sin x + 2 \cos x)^2 dx$$

317.
$$\int \frac{1}{\sin^2 x \cos^2 x} dx$$

318.
$$\int \frac{\sin x + \sin x \cos x}{1 - \cos x} dx$$

319.
$$\int \frac{1}{\cos^4 x} dx$$

320.
$$\int \frac{\sec^2 x}{(1 + \tan x)^3} dx$$

321.
$$\int \frac{\sin x \cos x}{\sqrt{\cos 2x + 1}} dx$$

322.
$$\int \cot 2x dx$$

323.
$$\int \frac{\ln x^2}{x} dx$$

324.
$$\int \sin x \cos^2\left(\frac{1}{2}x\right) dx$$

325.
$$\int \frac{e^{3x} + 1}{e^x + 1} dx$$

326.
$$\int 2^x dx$$

327.
$$\int 2^x 3^x dx$$

328.
$$\int 3^{2x+1} dx$$

329.
$$\int \frac{\sqrt{x}}{x-1} dx$$

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

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

332.
$$\int \frac{1}{x(1 + x^2)} dx$$

333.
$$\int \frac{\sqrt{x}}{\sqrt{x} - 1} dx$$

334.
$$\int \frac{x^2 + 2x - 2}{x^2 - 2x + 2} dx$$

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

336.
$$\int \sin^3 x \sin 2x dx$$

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

338.
$$\int \frac{2x^{\frac{1}{4}} + 1}{4x^{\frac{5}{4}} + 4x} dx$$

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

340.
$$\int \sec x \tan^3 x dx$$

341.
$$\int e^{e^x + x} dx$$

342.
$$\int \frac{\ln(x-1)}{\sqrt{x}} dx$$

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

344.
$$\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx$$

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

346.
$$\int x^2 e^{-x} dx$$

347.
$$\int e^x \cos x dx$$

348.
$$\int \frac{5^{2x}}{5^{2x} + 3} dx$$

349.
$$\int \frac{4x^2 - x + 1}{(x-1)(2x-1)} dx$$

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

351.
$$\int \frac{1}{(x-1)\sqrt{x^2-1}} dx$$

352.
$$\int \frac{x-2}{x^2-4x-2} dx$$

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

354.
$$\int \frac{\cos x + \tan x}{1 + \tan^2 x} dx$$

355.
$$\int \frac{4}{(4+x^2)^{\frac{3}{2}}} dx$$

356.
$$\int \frac{(x+1)^2}{x^2+1} dx$$

357.
$$\int \frac{4x^3\sqrt{x^4+1}}{1+\sqrt{x^4+1}} dx$$

358.
$$\int (\ln x)^2 dx$$

359.
$$\int \frac{\sqrt{\sqrt{x}+1}}{\sqrt{x}} dx$$

360.
$$\int \frac{1}{\sqrt{x^2+x^5}} dx$$

361.
$$\int \sqrt{\sin^2 x + (\cos x - 1)^2} dx$$

362.
$$\int x(\sin x + \cos x) dx$$

363.
$$\int \left(\frac{1}{x^2} + \frac{1}{x^3} \right) e^{\frac{1}{x}} dx$$

364.
$$\int \sqrt{18 \cos x \sin 2x} dx$$

365.
$$\int \frac{\cos x}{(\cos x + \sin x)^3} dx$$

366.
$$\int \frac{\sec^4 x}{\sqrt{\tan x}} dx$$

367.
$$\int \frac{\sqrt{x}}{1-\sqrt{x}} dx$$

368.
$$\int x(\sec^2 x - \operatorname{cosec}^2 x) dx$$

369.
$$\int \frac{4x^2 + 4x}{\sqrt{2x+1}} dx$$

370.
$$\int -2x \tan^2 x dx$$

371.
$$\int 4x \cos^2 2x dx$$

372.
$$\int \cos x (6 \sin x - 2 \sin 3x)^{\frac{2}{3}} dx$$

373.
$$\int \frac{20x}{4-x^2} dx$$

374.
$$\int \frac{1-x}{1-\sqrt{x}} dx$$

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

376.
$$\int \sqrt{x^2 - x^4} dx$$

377.
$$\int \frac{1}{\operatorname{cosec} 2x - \cot 2x} dx$$

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

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

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

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

382.
$$\int \ln\left(\frac{1}{6}x + 2\right) \, dx$$

383.
$$\int \frac{3x}{1 + \sqrt{x-1}} \, dx$$

384.
$$\int \frac{1}{x(x^3 - 1)} \, dx$$

385.
$$\int x^5 \sqrt{1-x^3} \, dx$$

386.
$$\int \frac{1}{x^{\frac{1}{2}} - x^{\frac{1}{4}}} \, dx$$

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

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

389.
$$\int \frac{1}{\sqrt{9x^2 + 12x + 5}} \, dx$$

390.
$$\int \frac{1}{\sqrt{16x^2 - 8x}} \, dx$$

391.
$$\int \sqrt{\frac{x}{1-x}} \, dx$$

392.
$$\int \frac{4x^2}{4x^2 + 1} \, dx$$

393.
$$\int e^{\cos x} \sin x \cos x \, dx$$

394.
$$\int \sin x (9 - 4\cos^2 x)^{\frac{1}{2}} \, dx$$

395.
$$\int \frac{4}{(\cos x + 2\sin x)^2} \, dx$$

396.
$$\int (1 - \cos x) \sqrt{\sin^2 x + (\cos x + 1)^2} \, dx$$

397.
$$\int \frac{2}{x + \sqrt{1-x^2}} \, dx$$

398.
$$\int \frac{1}{\sqrt{x+1} + \sqrt{x-1}} \, dx$$

399. $\int \cosh 2x \, dx$

400. $\int e^x (\tan x + \sec^2 x) \, dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

414. $\int x^3 \sqrt{1-x^2} \, dx$

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

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

417. $\int \sinh \sqrt{x} \, dx$

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

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

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

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421. $\int \cosh^2 2x \, dx$

422. $\int 4 \sinh 3x \, dx$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

451.
$$\int \frac{4}{5-3\cos x} dx$$

452.
$$\int \sinh^2 x dx$$

453.
$$\int \operatorname{sech}^2 4x dx$$

454.
$$\int \frac{1}{\sqrt{64+9x^2}} dx$$

455.
$$\int \frac{8}{\sqrt{16x^2-1}} dx$$

456.
$$\int \frac{1}{\sqrt{x} \cos^2 \sqrt{x}} dx$$

457.
$$\int \frac{6}{(1+\cos x)^2} dx$$

458.
$$\int \sin^3 x \sqrt{(\cos^2 x \sin x)^2 + (\sin^2 x \cos x)^2} dx$$

459.
$$\int \frac{3x^2 - 2x + 5}{(x+3)^3} dx$$

460.
$$\int \frac{\sqrt{25-x^2}}{x} dx$$

461.
$$\int \frac{1}{\sqrt{x^2+x+1}} dx$$

462.
$$\int e^x \sin x dx$$

463.
$$\int \frac{2x^2 + 5x - 1}{x^3 + x^2 - 2x} dx$$

464.
$$\int \frac{1}{\sqrt{5 - 4x - x^2}} dx$$

465.
$$\int \frac{x+2}{\sqrt{x}(x-2)^2} dx$$

466.
$$\int x^3 e^{-x^2} dx$$

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

468.
$$\int \frac{1}{e^{2x} - 3e^x} dx$$

469.
$$\int \operatorname{cosec}^3 x dx$$

470.
$$\int \frac{\tan \sqrt{x}}{\sqrt{x}} dx$$

471.
$$\int \frac{\cosh x}{1 + \sinh x} dx$$

472.
$$\int \frac{1}{6 \sinh 2x + 9 \cosh 2x} dx$$

473.
$$\int \sqrt{1 + 4 \sinh^2 x \cosh^2 x} dx$$

474.
$$\int \frac{\operatorname{arsinh} x}{\sqrt{x^2 + 1}} dx$$

475.
$$\int \frac{x}{\sqrt{x^2 + 1}} dx$$

476.
$$\int \sqrt{x^2 + 4} dx$$

477.
$$\int \frac{1}{4x^{\frac{1}{2}}(1+x^{\frac{1}{4}})} dx$$

478.
$$\int \frac{6x^2}{\sqrt{1-4x^6}} dx$$

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

480.
$$\int \frac{1}{\sqrt{4-x^2}} dx$$

481.
$$\int \sqrt{\left(1 - \frac{1}{x}\right)^2 + \left(\frac{2}{\sqrt{x}}\right)^2} dx$$

482.
$$\int \frac{1}{\sqrt{x^2 + 9}} dx$$

483.
$$\int \sqrt{x^2 - 4} \, dx$$

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

485.
$$\int \frac{1}{x(x^2 + 1)^3} \, dx$$

486.
$$\int \frac{\sin x \cos x}{\cos^2 x + 3 \cos x + 2} \, dx$$

487.
$$\int \sin(\ln x) \, dx$$

488.
$$\int \cos x \ln(\sin x) \, dx$$

489.
$$\int \frac{1}{\sqrt{x}\sqrt{\sqrt{x}+1}} \, dx$$

490.
$$\int -\sinh\left(\frac{1}{2}x\right) \, dx$$

491.
$$\int 3 \tanh^2 x \, dx$$

492.
$$\int \frac{\sin x}{\cos^5 x} \, dx$$

493.
$$\int \sqrt{1 - x^2} \, dx$$

494.
$$\int \frac{3}{x^2 - 4x + 13} \, dx$$

495.
$$\int \frac{1}{\sqrt{x^2 - 4x + 13}} \, dx$$

496.
$$\int \frac{x}{\sqrt{4 - x^4}} \, dx$$

497.
$$\int \frac{1}{\sqrt{16x^2 - 9}} \, dx$$

498.
$$\int \frac{1}{\sqrt{2x - x^2}} \, dx$$

499.
$$\int \sinh x \operatorname{sech}^2 x \, dx$$

500.
$$\int \frac{4}{(4x - x^2)^{\frac{3}{2}}} \, dx$$

501.
$$\int \cosh \sqrt{x} \, dx$$

502.
$$\int \frac{8}{x^4 - 1} \, dx$$

503.
$$\int \frac{1}{x(x^2 + 1)} \, dx$$

504.
$$\int \frac{1}{x\sqrt{1 - (\ln x)^2}} \, dx$$

505.
$$\int \frac{6}{(1+\cos x)^2} dx$$

506.
$$\int \frac{5}{4\cos x + 3\sin x} dx$$

507.
$$\int \frac{x}{1+\sqrt{x}} dx$$

508.
$$\int \log_2 x dx$$

509.
$$\int e^x (2\cos x - 3\sin x) dx$$

510.
$$\int \sqrt{1+\cos 3x} dx$$

511.
$$\int \sqrt{\frac{x-2}{4-x}} dx$$

512.
$$\int \ln(x+\sqrt{x}) dx$$

513.
$$\int x \sin x \sin 2x dx$$

514.
$$\int \frac{\cos x}{\sin x + 2\cos x} dx$$

515.
$$\int \frac{\sinh^3 x}{\cosh^2 x} dx$$

516.
$$\int \frac{\sec^2 x}{4 + \tan^2 x} dx$$

517.
$$\int \frac{1}{(x-2)^{\frac{1}{2}}(4-x)^{\frac{1}{2}}} dx$$

518.
$$\int \frac{4x+5}{x^2+2x+2} dx$$

519.
$$\int \frac{x^3}{x-2} dx$$

520.
$$\int \frac{x^2-12x-6}{(x-3)(x^2+2)} dx$$

521.
$$\int x^5 e^{x^3} dx$$

522.
$$\int \frac{x^3}{1+x^8} dx$$

523.
$$\int \sin x \sin^3\left(\frac{x}{2}\right) dx$$

524.
$$\int \frac{\cot x}{\sqrt{1-\cos 2x}} dx$$

525.
$$\int \tan^5 x \sec x dx$$

526.
$$\int \frac{2\cosh x \sinh x}{1+\cosh^4 x} dx$$

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$$527. \int \frac{\cos^3 x}{\sin^2 x} dx$$

$$528. \int \arcsin \sqrt{x} dx$$

$$529. \int \frac{8x^2 - 29x - 10}{(x^2 - x - 2)^2} dx$$

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

$$531. \int \sqrt{x^2 + 2x + 2} dx$$

$$532. \int \frac{3x^3 - 4x^2 + 5x - 2}{(x-1)(x^2+1)} dx$$

$$533. \int \frac{\cos x}{1 + \sin^2 x} dx$$

$$534. \int \sqrt{\frac{1-x}{1+x}} dx$$

$$535. \int 5 \sin\left(\frac{x}{3}\right) \sqrt{\cos\left(\frac{x}{6}\right)} dx$$

$$536. \int \frac{4 \cot x}{1 + \cos^2 x} dx$$

$$537. \int \frac{1}{(x+1)\sqrt{x+2}} dx$$

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

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

$$540. \int \frac{16}{(x+6)(x-2)\sqrt{x+2}} dx$$

$$541. \int \frac{16}{(x^2 + 1)\sqrt{x^2 - 1}} dx$$

$$542. \int \frac{1}{(x+1)\sqrt{x^2 + 4x + 2}} dx$$

$$543. \int \frac{x+2}{(x^2 + 4x + 1)^{\frac{3}{2}}} dx$$

$$544. \int \sqrt{36 - x^2} dx$$

$$545. \int \sqrt{\frac{x}{1-4x}} dx$$

$$546. \int \frac{1}{2(x+1)\sqrt{x^2 + x}} dx$$

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547. $\int \cos(\ln x) dx$

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

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

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

551. $\int \frac{8}{(1+x^2)^3} dx$

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

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

554. $\int \arcsin x dx$

555. $\int \arctan x dx$

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

557. $\int e^x \cosh x dx$

558. $\int \frac{1}{\sqrt{x^2-16}} dx$

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

560. $\int \frac{18}{(x^2+9)^2} dx$

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

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

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

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

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

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

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

568.
$$\int \frac{e^{\arcsin x}}{\sqrt{1-x^2}} dx$$

569.
$$\int \sqrt{\frac{1+x}{1-x}} dx$$

570.
$$\int (x^3 + 5x^2 - 2)e^{2x} dx$$

571.
$$\int \frac{4}{x^3 + 2x} dx$$

572.
$$\int \frac{3x^4 + x^3 + 2x^2 + x - 2}{(x+1)x^5} dx$$

573.
$$\int \frac{25}{25+x^2} dx$$

574.
$$\int \frac{1}{\sqrt{25-9x^2}} dx$$

575.
$$\int \frac{1}{x\sqrt{x^2-2}} dx$$

576.
$$\int \frac{x^2}{\sqrt{x^2-16}} dx$$

577.
$$\int \frac{2x+1}{\sqrt{9-x^2}} dx$$

578.
$$\int \frac{1}{x\sqrt{1-x^2}} dx$$

579.
$$\int \frac{1}{x^2\sqrt{4-x^2}} dx$$

580.
$$\int \frac{1}{x\sqrt{3x^2+2x-1}} dx$$

581.
$$\int \frac{3}{(4x+5)\sqrt{1-x^2}-3(1-x^2)} dx$$

582.
$$\int \frac{1}{\sqrt{x^2-2x}} dx$$

583.
$$\int x\sqrt{1-x^2} dx$$

584.
$$\int \sqrt{\frac{2\sqrt{x}+3}{4x}} dx$$

585.
$$\int \frac{\sinh x}{\cosh x - 1} dx$$

586.
$$\int \frac{\arcsin x}{\sqrt{1-x^2}} dx$$

587.
$$\int \frac{2^x}{\sqrt{1-4^x}} dx$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

602. $\int \frac{4x+7}{\sqrt{2x^2+7x+3}} dx$

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

604. $\int 10 \tanh 2x \operatorname{sech} 2x dx$

605. $\int \sinh^3 x \cosh x dx$

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

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

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

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609.
$$\int \frac{5 \cos x - \sin x}{3 \cos x + 2 \sin x} dx$$

610.
$$\int \frac{3 + 3 \sin x - \cos x}{\sin x + \cos x} dx$$

611.
$$\int x \arctan x dx$$

612.
$$\int \operatorname{arsinh}(\sqrt{x}) dx$$

613.
$$\int \frac{x}{(x+1)(x^2+x+1)} dx$$

614.
$$\int \frac{3x-4}{x^2+2x+4} dx$$

615.
$$\int \frac{x^2}{(x^2+8)^{\frac{3}{2}}} dx$$

616.
$$\int \sqrt{\frac{x}{x-1}} dx.$$

617.
$$\int \frac{4x^3 - 12x^2 - 22x - 3}{(4-x)(2x+1)} dx$$

618.
$$\int \ln(1+x^2) dx$$

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

620.
$$\int \frac{\sin(\ln x)}{x^2} dx$$

621.
$$\int x(2^x) dx$$

622.
$$\int x \ln(x^2 + 1) dx$$

623.
$$\int e^{2x} \sinh x dx$$

624.
$$\int \frac{6}{1+x^3} dx$$

625.
$$\int \sec^3 x dx$$

626.
$$\int 6 \operatorname{cosech} 3x \operatorname{coth} 3x dx$$

627.
$$\int \frac{2 \cos x}{\cos x - \sin x} dx$$

628.
$$\int \frac{1}{2 + \cos x} dx$$

629.
$$\int x^2 \cos^3 x dx$$

630.
$$\int \frac{(2x+1)^2}{x(x+1)^4} dx$$

631.
$$\int \frac{1}{\tanh x + \tan x} dx$$

632.
$$\int \frac{\sin x}{\sin\left(x + \frac{\pi}{4}\right)} dx$$

633.
$$\int \frac{1}{x(x - \sqrt{x^2 - 1})} dx$$

634.
$$\int \frac{(2 + \tan^2 x) \sec^2 x}{1 + \tan^3 x} dx$$

635.
$$\int \frac{2x - 3}{\sqrt{x^2 - 9}} dx$$

636.
$$\int \frac{\sqrt{x^2 - 1}}{x} dx$$

637.
$$\int \frac{1}{x^2 + 8x + 17} dx$$

638.
$$\int \frac{\sqrt{x+1} + 1}{\sqrt[3]{x+1} + \sqrt{x+1}} dx$$

639.
$$\int \sqrt{2^x - 1} dx$$

640.
$$\int \frac{4 \sin 3x}{(\cos 7x + \cos x)^2 + (\sin 7x + \sin x)^2} dx$$

641.
$$\int \operatorname{sech} x dx$$

642.
$$\int \operatorname{arcsec} x dx$$

643.
$$\int \frac{4x}{4 + x^4} dx$$

644.
$$\int \frac{12x^2}{(x^2 - 1)^2} dx$$

645.
$$\int \frac{1}{\sqrt{16x^2 + 1}} dx$$

646.
$$\int \frac{1 - x}{\sqrt{x}(x+1)^2} dx$$

647.
$$\int \frac{x^2}{1 - 2\sqrt{x}} dx$$

648.
$$\int \frac{16}{(x^2 + 4)^2} dx$$

649.
$$\int \frac{(x+6)\sqrt{x}}{(x+2)^2} dx$$

650.
$$\int \frac{9}{(4x^2 - 24x + 27)^{\frac{3}{2}}} dx$$

651.
$$\int 2e^x \sqrt{e^{2x}-1} dx$$

652.
$$\int \frac{\sqrt{x-x^2}}{x^4} dx$$

653.
$$\int \frac{1}{\sqrt{1-\sin 2x}} dx$$

654.
$$\int \frac{1}{\sqrt{x+\sqrt[3]{x}}} dx$$

655.
$$\int \frac{1}{x\sqrt{x^2+x+2}} dx$$

656.
$$\int \frac{2x+x^2 \cot x}{x^2+\operatorname{cosec} x} dx$$

657.
$$\int \frac{x}{(5-4x-x^2)^{\frac{3}{2}}} dx$$

658.
$$\int e^x (3\sec^2 x + 2\sec^2 x \tan x + 2 \tan x) dx$$

659.
$$\int (1-x^2)^{\frac{5}{2}} dx$$

660.
$$\int \frac{x(2-3x)}{e^{3x}+x^2} dx$$

661.
$$\int \frac{x}{x^4+x^2+1} dx$$

662.
$$\int \frac{1+\cos x}{\sin^3 x} dx$$

663.
$$\int \frac{16}{(x^2-2x+5)^2} dx$$

664.
$$\int \frac{8}{(x^2+1)^3} dx$$

665.
$$\int \frac{8}{(x^2+x+2)^3} dx$$

666.
$$\int \frac{x^4-1}{x^2\sqrt{x^4+1}} dx$$

667.
$$\int \frac{(x^2+3x+3)e^{-x} \sin x}{(x+1)^3} dx$$

668.
$$\int \sqrt{\tan x} dx$$