

# MATHS

## Assignment 1.0

### INTEGRALS

By

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**Assignment 1.0**

1. Evaluate  $\int \frac{(\log x)^2}{x} dx$
2. Evaluate  $\int \frac{xe^x}{(x+1)^2} dx$
3. Evaluate  $\int_0^8 |x-5| dx$
4. Evaluate  $\int \frac{dx}{\sqrt{2-4x+x^2}}$
5. Evaluate  $\int_0^{\pi/2} \frac{\sin x - \cos x}{1 + \sin x \cos x} dx$
6. Find the value of  $\int_0^2 (3x^2 - 2) dx$  as a limit of sum.
7. Evaluate  $\int \frac{3}{(1-x)(1+x^2)} dx$
8. Evaluate  $\int \frac{\sin x}{1 + \cos x} dx$
9. Evaluate  $\int \frac{dx}{\sqrt{3-x+x^2}}$
10. Find the value of  $\int_0^2 (2x^2 - 3) dx$  as the limit of sums.
11. Evaluate  $\int \frac{\operatorname{cosec}^2 x}{1 - \cot^2 x} dx$
12. Evaluate  $\int e^x \sec x (1 + \tan x) dx$
13. Evaluate  $\int_0^6 |x-2| dx$
14. Evaluate  $\int \frac{dx}{\sqrt{x^2 - 2x + 4}}$
15.  $\int_0^{\pi/2} \frac{\sin^3 x}{\sin^3 x + \cos^3 x} dx$
16. Find the value of  $\int_0^3 (2x^2 + 3) dx$  as limit of sums.
17. Evaluate  $\int \frac{dx}{(2-x)(x^2+3)}$
18. Evaluate  $\int \frac{\tan x \cdot \sec^2 x}{1 - \tan^2 x}$

19. Evaluate  $\int \frac{\tan x \cdot \sec^2 x}{1 - \tan^2 x} dx$
20. Find the value of  $\int_0^2 (3x^2 - 4) dx$  as a limit of sums.
21. Evaluate  $\int (3 \cot x - 3 \tan x)^2 dx$ .
22. Prove that  $\int_0^{2a} f(x) dx = \int_0^a f(x) dx + \int_0^a f(2a - x) dx$
23. Find the value of  $\int_0^2 (3x^2 + 4) dx$  as limit of sum.
24. Evaluate  $\int \frac{xe^{2x}}{(1+2x)^2} dx$
25. Evaluate  $\int \frac{dx}{(1+x^4)}$
26. Evaluate  $\int (3 \sin x + 4 \operatorname{cosec} x)^2 dx$
27. Find the value of  $\int_0^3 (2x^2 - 5) dx$  as limit of sum.
28. Evaluate  $\int \sqrt{x^2 - 4x + 2} dx$ .
29. Evaluate  $\int (2x + 4) \sqrt{x^2 + 4x + 3} dx$
30. Evaluate  $\int \frac{dx}{50 + 2x^2}$
31. Evaluate  $\int \frac{x^2}{x^2 - 4x + 3} dx$
32. Evaluate  $\int x \cos^{-1} x dx$
33. Evaluate  $\int_0^3 f(x) dx$  when  $f(x) = |x| + |x-1| + |x-2|$
34. Evaluate  $\int \sqrt{x^2 + 6x - 4} dx$
35. Evaluate  $\int_1^4 f(x) dx$  when  $f(x) = |x-1| + |x-2| + |x-3|$
36. Evaluate  $\int \frac{x^2}{x^2 + 3x - 3} dx$
37. Evaluate  $\int \frac{dx}{32 - 2x^2}$
38. Evaluate  $\int \sqrt{x^2 + 8x + 4} dx$ .
39. Evaluate  $\int (2x+1) \sqrt{x^2 + x + 1} dx$



40. Evaluate  $\int \frac{x^2}{x^2+6x-12} dx$
41. Evaluate  $\int x \tan^{-1} x dx$
42. Evaluate  $\int_{-\pi/2}^{\pi/2} [\sin|x| - \cos|x|] dx.$
43. Evaluate  $\int \sqrt{x^2+8x-6} dx.$
44. Evaluate  $\int_{-\pi/2}^{\pi/2} [2\sin|x| + \cos|x|] dx.$
45. Evaluate  $\int \frac{x^2}{x^2+6x-3} dx$
46. Prove that  $\int_0^{\pi/2} \frac{\sin x - \cos x}{1 + \sin x \cos x} dx = 0$
47. Evaluate  $\int \frac{dx}{x + \sqrt{x}}$
48. Evaluate  $\int \frac{x}{1+x+x^2+x^3} dx.$
49. Evaluate  $\int_0^1 \tan^{-1} \left[ \frac{2x}{1-x^2} \right] dx.$
50. Evaluate the following integral as a limit of sum  $\int_1^3 x^2 dx.$
51. Prove that  $\int_0^{\pi/2} \sin 2x \log \tan x dx = 0.$
52. Evaluate  $\int_0^1 \cos^{-1} \left[ \frac{1-x^2}{1+x^2} \right] dx$
53. Prove that  $\int_0^1 \log \left[ \frac{1}{x} - 1 \right] dx = 0.$
54. Evaluate  $\int_0^1 \sin^{-1} \left[ \frac{2x}{1+x^2} \right] dx$
55. Evaluate  $\int \cos^4 x dx.$
56. Evaluate  $\int \frac{1 + \tan x}{x + \log \sec x} dx$
57. Evaluate  $\int_1^2 \left( \frac{x-1}{x^2} \right) e^x dx.$
58. Evaluate as the limit of sum  $\int_0^2 (x^2 + 2) dx.$

59. Evaluate  $\int \frac{2x+1}{\sqrt{x^2+4x+3}} dx$ .

60. Using properties of integral, evaluate  $\int_{-\pi/2}^{\pi/2} f(x) dx$  where  $f(x) = \sin|x| + \cos|x|$ .

61. Evaluate  $\int \frac{1+\cot x}{x+\log \sin x} dx$ .

62. Evaluate  $\int \sin^4 x dx$ .

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

64. Evaluate  $\int e^x(\tan x - \log \cos x) dx$ .

65. Evaluate as the limit of sum  $\int_0^3 (x^2+1) dx$ .

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

67. Evaluate  $\int x \sin^{-1} x dx$ .

68. Evaluate  $\int_0^{\pi/2} \frac{\sin^5 x}{\sin^5 x + \cos^5 x} dx$ .

69. Evaluate  $\int_0^3 (x^2+2x) dx$  as limit of sum.

70. Evaluate  $\int_0^{\pi/2} \frac{\sin^7 x}{\sin^7 x + \cos^7 x} dx$ .

71. Evaluate  $\int \frac{1+\tan x}{1-\tan x} dx$

72. Evaluate  $\int_0^3 (x^2+2) dx$  as the limit of sum.

73. Evaluate  $\int \frac{\sec^2(\log x)}{x} dx$ .

74. Evaluate  $\int \sin 5x \sin 3x dx$ .

75. Evaluate  $\int \log(1+x^2) dx$ .

76. Evaluate  $\int \frac{4x+5}{\sqrt{2x^2+x-3}} dx$

77. Evaluate  $\int_0^{\pi} \frac{x \sin x}{1+\cos^2 x} dx$

78. Evaluate  $\int \sin 7x \sin x dx$ .

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



80. Evaluate  $\int \frac{\cos ec^2(\log x)}{x} dx$ .
81. Evaluate  $\int \cos 3x \cos 5x dx$
82. Evaluate  $\int \log(2+x^2) dx$ .
83. Evaluate  $\int \frac{2x+3}{\sqrt{x^2+4x+5}} dx$
84. Evaluate  $\int_0^{\pi} \frac{x \tan x}{\sec x \cos ecx} dx$ .
85. Evaluate  $\int \cos x \cos 7x dx$ .
86. Evaluate  $\int \frac{2x+5}{\sqrt{x^2+3x+2}} dx$ .
87. Evaluate  $\int \frac{dx}{\sqrt{(x+5)(x+1)}}$
88. Evaluate  $\int \frac{x-1}{(x+1)(x-2)} dx$ .
89. Evaluate as limit of a sum :  $\int_0^2 (x^2+3) dx$ .
90. Evaluate  $\int_0^{\pi} \frac{x}{1+\sin x} dx$ .
91. Evaluate  $\int \frac{dx}{\sqrt{(2-x)^2+1}}$
92. Evaluate  $\int \frac{dx}{\sqrt{7-6x-x^2}}$
93. Evaluate  $\int \frac{\sin(2 \tan^{-1} x)}{1+x^2} dx$
94. Evaluate  $\int_1^2 e^x \left[ \frac{1}{x} - \frac{1}{x^2} \right] dx$
95. Evaluate  $\int e^{ax} \cos bxdx$
96. Evaluate  $\int \frac{x}{(x^2+1)(x+1)} dx$ .
97. Evaluate  $\int_0^{\pi/2} \frac{\sin^2 x}{\sin x + \cos x} dx$ .
98. Prove that  $\int_0^1 \sin^{-1} \left[ \frac{2x}{1+x^2} \right] dx = \frac{\pi}{2} - \log 2$
99. Evaluate  $\int \frac{dx}{\sqrt{8+2x-x^2}}$

100. Evaluate  $\int e^{ax} \sin bx \, dx$

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

102. Prove that  $\int_0^{\pi/2} (\sqrt{\tan x} + \sqrt{\cot x}) dx = \sqrt{2}\pi$ .

103. Evaluate  $\int \frac{dx}{x^2-4x+8}$

104. Evaluate  $\int \frac{dx}{\sqrt{x+3}-\sqrt{x+2}}$

105. Evaluate  $\int_0^{\pi/2} \cos^2 x \, dx$ .

106. Evaluate  $\int \frac{\sin^{-1} x}{x^2} dx$

107. Prove that  $\int_0^{\pi/4} \log(1+\tan \theta) d\theta = \frac{\pi}{8} \log 2$

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

109. Evaluate  $\int \frac{(x+1)(x+\log x)^2}{x} dx$ .

110. Evaluate  $\int \frac{dx}{x^2+8x+20}$

111. Evaluate  $\int \frac{dx}{\sqrt{15-8x^2}}$

112. Evaluate  $\int (1+x) \log x \, dx$

113. Prove that  $\int_0^a f(x) dx = \int_0^a f(a-x) dx$  and hence prove that  $\int_0^{\pi/2} \frac{\sin x}{\sin x + \cos x} dx = \frac{\pi}{4}$

114. Evaluate  $\int \frac{dx}{1-\sin x}$

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

116. Evaluate  $\int \tan^{-1} \sqrt{\frac{1-\sin x}{1+\sin x}} dx$

117. Evaluate  $\int x\sqrt{x^4-1} \, dx$

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

119. Evaluate  $\int \frac{xdx}{(x+2)(3-2x)}$



120. Evaluate  $\int_{\pi/4}^{\pi/2} \cos 2x \log \sin x dx$

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

122. Prove that  $\int_{-a}^a \sqrt{\frac{a-x}{a+x}} dx = a\pi$

123. Evaluate  $\int \frac{dx}{e^x - 1}$

124. Evaluate  $\int \frac{xdx}{x^4 - x^2 + 1}$

125. Evaluate  $\int \frac{\sqrt{x^2 + a^2}}{x} dx$

126. Evaluate  $\int \frac{\tan^{-1} x}{(1+x)^2} dx$

127. Evaluate  $\int_0^{\pi/2} \frac{\sin^2 x}{\sin x + \cos x} dx$

128. Evaluate  $\int \frac{dx}{5 + 4 \cos x}$

129. Evaluate  $\int_0^{\pi/2} \frac{\sin 2x}{\sin^4 x + \cos^4 x} dx$

130. Evaluate  $\int \sec^3 x dx$

131. Evaluate  $\int_1^2 \frac{1}{x(1 + \log x)^2} dx$

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

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

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

135. Prove that  $\int_0^{\pi/2} \sin 2x \log(\tan x) dx = 0$

136. Evaluate  $\int \frac{dx}{\sqrt{8 - 4x - 2x^2}}$

137. Evaluate  $\int \frac{\sin x}{(2 + \cos x)(5 + \cos x)} dx$

138. Evaluate  $\int \frac{\sin x}{\sin(x-a)} dx$



139. Evaluate  $\int \frac{dx}{\sqrt{10-8x-2x^2}}$

140. Evaluate  $\int \frac{2x}{(2+x^2)(3+x^2)} dx$

141. Evaluate  $\int_0^{\pi/2} \frac{x dx}{\sin x + \cos x}$

142. Evaluate  $\int_0^{\pi} \frac{x dx}{a^2 \cos^2 x + b^2 \sin^2 x}$

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

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

145. Evaluate  $\int \sin^4 x dx$

146. Evaluate  $\int \frac{\sin^{-1} x}{x^2} dx$

147. Evaluate  $\int \frac{dx}{3+2\sin x + \cos x}$

148. Evaluate  $\int_0^{\pi/2} \frac{\cos x dx}{(1+\sin x)(2+\sin x)}$

149. Evaluate  $\int (\sin^{-1} x)^2 dx$

150. Evaluate  $\int_0^{\pi/4} 2 \tan^3 x dx = 1 - \log 2$

151. Evaluate  $\int \sin^4 2x dx$

152. Evaluate  $\int \frac{e^x}{\sqrt{5-4e^x - e^{2x}}} dx$

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

154. Prove that  $\int_0^{\pi/4} \sqrt{1-\sin 2x} dx = \sqrt{2} - 1$

155. Prove that  $\int_0^1 \sqrt{\frac{1+x}{1-x}} dx = \frac{\pi}{2} - 1$

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

157. Evaluate  $\int \frac{\sin x \cos x dx}{a^2 \sin^2 x + b^2 \cos^2 x}$

158. Evaluate  $\int x \tan^{-1} x dx$

159. Evaluate  $\int \frac{dx}{\sqrt{2x^2 + 4x + 6}}$

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

161. Evaluate  $\int_{\pi/6}^{\pi/3} \frac{dx}{1+\sqrt{\tan x}}$

162. Evaluate  $\int_0^{\pi/2} \frac{\cos^3 x}{\sin^3 x + \cos^3 x} dx$

163. Evaluate  $\int \frac{1-\cot x}{1+\cot x} dx$

164. Evaluate  $\int x \sin^{-1} x dx$

165. Evaluate  $\int \frac{dx}{\sqrt{3x^2 + 6x + 12}}$

166. Evaluate  $\int \frac{2x+1}{18-4x-x^2} dx$

167. Evaluate  $\int \frac{\sin 2x}{a^2 \sin^2 x + b^2 \cos^2 x} dx$

168. Evaluate  $\int \frac{\sqrt{16 + (\log x)^2}}{x} dx$

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

170. Evaluate  $\int_0^{\pi} \frac{dx}{5+4\cos x}$

171. Evaluate the following as limit of sum  $\int_0^2 (x^2 + x) dx$ .

172. Evaluate  $\int \frac{\sin 2x}{(a+b \cos x)^2} dx$ .

173. Evaluate  $\int \left[ \frac{1}{\log x} - \frac{1}{(\log x)^2} \right] dx$ .

174. Evaluate  $\int \frac{x^2}{x^2 + 6x + 12} dx$ .

175. Evaluate  $\int_{-5}^0 f(x) dx$  where  $f(x) = |x| + |x+2| + |x+5|$ .

176. Evaluate  $\int_{-5}^0 f(x) dx$  where  $f(x) = |x| + |x+3| + |x+6|$ .

177. Evaluate  $\int \frac{(x^2+1)e^x}{(x+1)^2} dx$ .



178. Evaluate  $\int (x+3)\sqrt{3-4x-x^2} dx$ .

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

180. Prove that if  $f$  is an odd function, then  $\int_{-a}^a f(x)dx = 0$ . Use it to evaluate

$$\int_{-1}^1 \log\left(\frac{2+x}{2-x}\right) dx.$$

181. Evaluate  $\int (2x-5)\sqrt{x^2-4x+3} dx$ .

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

183. Prove that  $\int_0^a f(x)dx = \int_0^a f(a-x)dx$ . Using it, evaluate  $\int_0^2 x\sqrt{2-x} dx$ .

184. Evaluate  $\int \frac{1}{5\cos x - 12\sin x} dx$

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

186. Evaluate  $\int \frac{\cos x}{(1-\sin x)(2-\sin x)} dx$ .

187. Evaluate  $\int_0^{\pi/2} x^2 \cos 2x dx$ .

188. Evaluate  $\int \sin x \sqrt{1+\cos 2x} dx$ .

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

190. Evaluate  $\int \cos^4 x dx$ .

191. Evaluate  $\int \frac{\cos x}{\sqrt{\sin^2 x - 2\sin x - 3}} dx$ .

192. Evaluate  $\int x^2 \cot^{-1} x dx$ .

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

194. Evaluate  $\int_{\pi/16}^{\pi/3} \frac{1}{1+\sqrt{\tan x}} dx$ .

195. Evaluate  $\int \frac{dx}{\sqrt{x^2-3x+2}}$

196. Evaluate  $\int \frac{\sin(x-\alpha)}{\sin(x+\alpha)} dx$ .

197. Evaluate  $\int_0^{\pi/4} \sin 2x \sin 3x dx$ .

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

199. Evaluate  $\int_0^2 (x^2+x+1)dx$  as a limit of a sum.

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

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

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

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

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

205. Prove that  $\int_0^a f(x)dx = \int_0^a f(a-x)dx$ . Hence evaluate  $\int_0^{\pi/2} \frac{dx}{1+\tan x}$

206. Evaluate  $\int \sqrt{\tan \theta} d\theta$ .

207. Evaluate  $\int_0^2 (x^2+x+2) dx$  as a limit of sum.

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

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

210. Evaluate  $\int \frac{2\sqrt{\tan x}}{\sin 2x} dx$ .

211. Evaluate  $\int \frac{\sin x}{(1-\cos x)(2-\cos x)} dx$ .

212. Evaluate  $\int \frac{\cos x}{(1-\sin x)(3-\sin x)} dx$ .

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

214. Evaluate  $\int \frac{2x+3}{2x^2+4x+5} dx$ .

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

216. Evaluate  $\int \frac{dx}{x[6(\log x)^2+7\log x+2]}$

217. Evaluate  $\int_0^3 (x^2-2x+2)dx$  as a limit of sum.



218. Evaluate  $\int \frac{\sin 2x}{(1 - \cos 2x)(2 - \cos 2x)} dx$ .

219. Using properties of definite integral prove that  $\int_0^2 x\sqrt{2-x} dx = \frac{16\sqrt{2}}{15}$ .

220. Evaluate  $\int_0^2 (x^2 + 2x + 1) dx$  as the limit of a sum.

221. Evaluate  $\int_0^1 (3x^2 + 2x + 1) dx$  as the limit of a sum.

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

223. Evaluate  $\int \frac{x^2+4}{x^4+16} dx$ .

224. Evaluate  $\int_0^{1/\sqrt{2}} \frac{\sin^{-1} x}{(1-x^2)^{3/2}} dx$ .

225. Evaluate  $\int_0^{\pi/2} \log(\sin x) dx$ .

226. Evaluate  $\int \frac{x+2}{2x^2+6x+5} dx$ .

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

228. Evaluate  $\int_0^3 (2x^2 + 3x + 5) dx$  as the limit of sum.

229. Evaluate  $\int \frac{x^2+4x}{x^3+6x^2+5} dx$ .

230. Evaluate  $\int_0^1 \frac{dx}{1+x^2}$ .

231. Evaluate  $\int_0^{\pi} \frac{x}{a^2 \cos^2 x + b^2 \sin^2 x} dx$ .

232. Evaluate  $\int_0^{\pi} \frac{x \tan x}{\sec x + \cos x} dx$ .

233. Evaluate  $\int_0^{\pi/2} \frac{dx}{5+4 \sin x}$

234. Evaluate  $\int_0^1 \frac{\log(1+x)}{1+x^2} dx$

235. Evaluate  $\int_0^{\pi/2} \log \sin x dx$

236. Evaluate  $\int \frac{x + \cos 6x}{3x^2 + \sin 6x} dx$ .

237. If  $\int (e^{ax} + bx)dx = \frac{e^{4x}}{4} + \frac{3x^2}{2}$ , find the values of  $a$  and  $b$ .

238. Show that :  $\int_0^{\pi/2} \sqrt{\tan x} + \sqrt{\cot x} = \sqrt{2}\pi$

239. Evaluate  $\int_0^{\pi} \frac{x \tan x}{\sec x + \tan x} dx$

240. Evaluate  $\int_0^{\pi/2} \log \sin x dx$

241. Evaluate  $\int_0^1 \cot^{-1}(1-x+x^2) dx$

242. Evaluate  $\int \frac{x^2}{x+x^3} dx$

243. Evaluate  $\int_0^1 \frac{dx}{1+x^2}$

244. Evaluate  $\int_0^{\pi} \frac{x \sin x}{1+\cos^2 x} dx$

245. Evaluate  $\int_{-a}^a \sqrt{\frac{a-x}{a+x}} dx$

246. Evaluate  $\int_0^{\pi} \frac{x \tan x}{\sec x \operatorname{cosec} x} dx$

247. Evaluate  $\int_0^{\pi} \frac{x \sin x}{1+\cos^2 x} dx$

248. Evaluate  $\int_0^1 \cot^{-1}[1-x+x^2] dx$

249. Using properties of definite integrals, evaluate the following :  $\int_0^{\pi} \frac{x \tan x}{\sec x + \tan x} dx$ .

Note : if any mistake on this, kindly inform on the mail id : [bkna1207@gmail.com](mailto:bkna1207@gmail.com)

Your Observation! Our Correction !!