

61. $\int_0^1 (\sqrt{x} + \sqrt[3]{x^2}) dx.$ 62. $\int_0^\pi \sin x dx.$ 63. $\int_{1/\sqrt{3}}^{\sqrt{3}} \frac{dx}{1+x^2}.$
64. $\int_{-1/2}^{1/2} \frac{dx}{\sqrt{1-x^2}}.$ 65. $\int_{-\pi/4}^0 \frac{dx}{\cos^2 x}.$ 66. $\int_2^9 \sqrt[3]{x-1} dx.$
67. $\int_1^2 e^x dx.$ 68. $\int_0^2 2^x dx.$ 69. $\int_2^4 \frac{dx}{x}.$ 70. $\int_1^2 \frac{dx}{2x-1}.$
71. $\int_0^1 \frac{x^2 dx}{1+x^6}.$ 72. $\int_e^{e^2} \frac{dx}{x \ln x}.$ 73. $\int_{e^2}^{e^3} \frac{dx}{x \ln x}.$ 74. $\int_{-\pi}^\pi \sin^2 x dx.$
75. $\int_{-\pi}^\pi \cos^2 x dx.$ 76. $\int_{\pi/6}^{\pi/3} \operatorname{tg}^4 x dx.$ 77. $\int_0^2 \operatorname{sh}^3 x dx.$
78. $\int_0^1 \frac{dx}{4x^2+4x+5}.$ 79. $\int_3^4 \frac{x^2+3}{x-2} dx.$ 80. $\int_{-2}^{-1} \frac{x+1}{x^2(x-1)} dx.$
81. $\int_2^3 \frac{dx}{x^2-2x-8}.$ 82. $\int_0^2 \frac{2x-1}{2x+1} dx.$ 83. $\int_0^1 \frac{x^2+3x}{(x+1)(x^2+1)} dx$
84. $\int_0^1 \frac{dx}{\sqrt{x^2+2x+2}}.$ 85. $\int_{3/4}^2 \frac{dx}{\sqrt{2+3x-2x^2}}.$ 86. $\int_0^4 \frac{dx}{1+\sqrt{x}}.$
87. $\int_4^9 \frac{\sqrt{x} dx}{\sqrt{x}-1}.$ 88. $\int_0^4 \frac{dx}{1+\sqrt{2x+1}}.$ 89. $\int_1^2 \frac{e^{1/x^2}}{x^3} dx.$
90. $\int_1^e \frac{\cos(\ln x) dx}{x}.$ 91. $\int_1^e \frac{dx}{x(1+\ln^2 x)}.$ 92. $\int_0^1 \sqrt{4-x^2} dx.$
93. $\int_0^1 \frac{dx}{e^x + e^{-x}}.$ 94. $\int_0^{\pi/4} \cos^3 x dx.$ 95. $\int_0^{1/3} \operatorname{ch}^2 3x dx.$
96. $\int_0^{\pi/2} \frac{dx}{1+\sin x + \cos x}.$ 97. $\int_0^{\pi/4} \frac{dx}{1+2\sin^2 x}.$ 98. $\int_0^1 x e^{-x} dx.$
99. $\int_{\pi/4}^{\pi/3} \frac{x dx}{\sin^2 x}.$ 100. $\int_1^3 \ln x dx.$ 101. $\int_1^2 x \ln x dx.$
102. $\int_0^{1/2} \arcsin x dx.$ 103. $\int_0^\pi x^3 \sin x dx.$ 104. $\int_0^{\pi/2} e^{2x} \cos x dx.$

(127–168) İntegralleri hesaplayınız:

127. $\int_{-\pi}^{\pi} \sqrt[3]{\sin x} dx.$ 128. $\int_{-\pi}^{\pi} e^{x^2} \sin x dx.$
129. $\int_{-\pi/2}^{\pi/2} (\cos^2 x + x^2 \sin x) dx.$ 130. $\int_{-1}^1 \cos x \operatorname{th} x dx.$
131. $\int_{-1}^1 (e^x + e^{-x}) \operatorname{tg} x dx.$ 132. $\int_{-\pi/3}^{\pi/3} \left(x^2 \sin 5x + \cos \frac{x}{3} + \operatorname{tg}^3 x \right) dx.$
133. $\int_{-\pi/3}^{\pi/3} \frac{2x^7 - x^5 + 2x^3 - x + 1}{\cos^2 x} dx.$ 134. $\int_0^2 e^{x^2} x dx.$
135. $\int_0^1 x^2 \sqrt{1-x^2} dx.$ 136. $\int_0^{\ln 2} \sqrt{e^x - 1} dx.$ 137. $\int_0^{\ln 2} x e^{-x} dx.$
138. $\int_0^{\pi} x \sin x dx.$ 139. $\int_0^{\pi/4} x \sin 2x dx.$ 140. $\int_0^{2\pi} x^2 \cos x dx.$
141. $\int_0^1 \arccos x dx.$ 142. $\int_1^3 \operatorname{arctg} \sqrt{x} dx.$ 143. $\int_1^e \frac{dx}{x\sqrt{1+\ln x}}.$
144. $\int_0^1 \frac{e^{2x} + 2e^x}{e^{2x} + 1} dx.$ 145. $\int_0^{\pi/2} \frac{dx}{2 - \sin x}.$ 146. $\int_{\pi/3}^{\pi/2} \frac{dx}{3 + \cos x}.$
147. $\int_0^{3/4} \frac{dx}{(x+1)\sqrt{x^2+1}}.$ 148. $\int_1^9 x \sqrt[3]{1-x} dx.$ 149. $\int_{-3}^{-2} \frac{dx}{x\sqrt{x^2-1}}.$
150. $\int_0^1 x^{15} \sqrt{1+3x^8} dx.$ 151. $\int_0^{\pi/2} \sin x \sin 2x \sin 3x dx.$
152. $\int_0^{\ln 2} \operatorname{sh}^4 x dx.$ 153. $\int_1^2 x^2 \ln x dx.$ 154. $\int_1^n x^n \ln x dx.$
155. $\int_0^{\sqrt{3}} x \operatorname{arctg} x dx.$ 156. $\int_0^1 x(2-x^2)^{12} dx.$ 157. $\int_0^1 \arcsin \sqrt{x} dx.$
158. $\int_0^{\pi} e^x \cos^2 x dx.$ 159. $\int_{1/e}^e |\ln x| dx.$ 160. $\int_0^e (x \ln x)^2 dx.$
161. $\int_0^3 \arcsin \sqrt{\frac{x}{1+x}} dx.$ 162. $\int_a^{2a} \frac{\sqrt{x^2 - a^2}}{x^4} dx, a \neq 0.$
163. $\int_{-1}^1 \frac{x dx}{x^2 + x + 1}.$ 164. $\int_0^1 \frac{\ln(1+x)}{1+x^2} dx.$ 165. $\int_0^{\pi} \frac{dx}{a + b \cos x}, |b| < a.$
166. $\int_{-1}^1 \frac{dx}{x^2 - 2x \cos \alpha + 1}, \alpha \neq \pi n, n \in \mathbb{Z}.$
167. $\int_{1/2}^2 \left(1 + x - \frac{1}{x} \right) e^{x+1/x} dx.$ 168. $\int_{e^{-2\pi n}}^1 \left| \left(\cos \ln \frac{1}{x} \right)' \right| dx, n \in \mathbb{N}.$