Uygun değişken değiştirmesi yaparak integralleri hesaplayınız:

7.44. $\int \sqrt{3+x}\,dx.$ **7.45.** $\int (3-4\sin x)^{1/3}\cos x\,dx.$

7.46. $\int \operatorname{ch} x \operatorname{sh} x\,dx.$ **7.47.** $\int \frac{\sec^2 x}{\operatorname{tg}^4 x}\,dx.$

7.48. $\int \frac{dx}{x\ln^2 x}.$ **7.49.** $\int \frac{dx}{a+bx}.$

7.50. $\int \frac{\sec^2 x}{a-b\operatorname{tg} x}\,dx.$ **7.51.** $\int \frac{\cos(x/\sqrt{2})}{2-3\sin(x/\sqrt{2})}\,dx.$

7.52. $\int \operatorname{ctg} x\,dx.$ **7.53.** $\int 3^{4x}\,dx.$

7.54. $\int \cos(ax+b)\,dx.$ **7.55.** $\int \sin(\ln x)\frac{dx}{x}.$

7.56. $\int \sin\sqrt{x}\cdot\frac{dx}{\sqrt{x}}.$ **7.57.** $\int \frac{dx}{\cos(x-\pi/4)}.$

7.58. $\int \frac{dx}{\operatorname{sh}^2 3x}.$ **7.59.** $\int \frac{x}{\sqrt[3]{x^2-1}}\,dx.$

7.60. $\int x\cdot 5^{-x^2}\,dx.$ **7.61.** $\int \frac{dx}{1-4x^2}.$

7.62. $\int \frac{e^{-ax}}{1+e^{-2ax}}\,dx.$ **7.63.** $\int \frac{dx}{\sqrt{5-3x^2}}.$

7.64. $\int \frac{dx}{\sqrt{9x^2-1}}.$ **7.65.** $\int \frac{\sin x\,dx}{\sqrt{\cos^2 x+4}}.$

7.66. $\int \frac{x^3\,dx}{x^8+1}.$ **7.67.** $\int \frac{x\,dx}{\sqrt{x^4+1}}.$

7.68. $\int \frac{dx}{a^2+b^2x}.$ **7.69.** $\int \frac{\sin ax}{\cos^3 ax}\,dx.$

7.70. $\int \operatorname{ch}^2 x \operatorname{sh} x\,dx.$ **7.71.** $\int \frac{e^x}{(7-e^x)^2}\,dx.$

7.72. $\int \operatorname{tg} x\,dx.$ **7.73.** $\int \operatorname{cth} 4x\,dx.$

7.74. $\int \frac{a^{1/x}}{x^2}\,dx.$ **7.75.** $\int \frac{x\,dx}{\operatorname{ch}^2(x^2+1)}.$

7.76. $\int \frac{dx}{(a-b)x^2-(a+b)}$ $(0<b<a).$

7.77. $\int \frac{dx}{4x^2+7}.$ **7.78.** $\int \frac{x\,dx}{4x^2+7}.$

7.79. $\int \frac{x^2\,dx}{\sqrt{x^6+1}}.$ **7.80.** $\int \frac{a^x}{\sqrt{a^{2x}-1}}\,dx.$

Değişik yöntemler uygulayarak integralleri hesaplayınız:

7.81*. $\int \frac{x-1}{(x+2)^2}\,dx.$ **7.82.** $\int \frac{x^2}{3+x^2}\,dx.$

7.83. $\int \frac{x^2-2x+3}{x^2-4}\,dx.$ **7.84.** $\int \frac{x\,dx}{a^2x^4-b^2}.$

7.85. $\int \frac{x^3}{9-4x^8}\,dx.$ **7.86.** $\int \frac{x^4+1}{x^5+5x-8}\,dx.$

7.87. $\int x^3\sqrt[4]{5x^4-3}\,dx.$

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

7.89. $\int \frac{x+1}{\sqrt{1-4x^2}}\,dx.$ **7.90.** $\int \frac{a^2+\sqrt{a^2+b^2x^2}}{a^2+b^2x^2}\,dx.$

7.91. $\int \frac{dx}{\sqrt[5]{a^x}}.$ **7.92.** $\int e^x\sqrt[3]{4+e^x}\,dx.$

7.93. $\int \frac{e^x}{\sqrt{e^{2x}+4}}\,dx.$ **7.94*.** $\int \frac{dx}{2^x+1}.$

7.95. $\int \frac{e^{\arcsin x}+x+1}{\sqrt{1-x^2}}\,dx.$ **7.96.** $\int \frac{xe^{\sqrt{x^2-1}}}{\sqrt{x^2-1}}\,dx.$

7.97. $\int \sqrt{3-\operatorname{ch} x}\operatorname{sh} x\,dx.$ **7.98.** $\int \frac{dx}{x\sqrt{1-4\ln x}}.$

7.99. $\int \frac{dx}{x\sqrt{1-4\ln^2 x}}.$ **7.100*.** $\int \sin^2 x\,dx.$

7.101*. $\int \cos^2 x\,dx.$ **7.102.** $\int \frac{dx}{\sin(x/\sqrt{2})}.$

7.103. $\int (\sin ax+\cos ax)^2\,dx.$ **7.104.** $\int \frac{x^2}{\cos(x^3)}\,dx.$

7.105. $\int \frac{(1+\cos 2x)^3}{\cos 2x}\,dx.$ **7.106.** $\int \frac{\sin 2x}{\sqrt{3-\cos^2 x}}\,dx.$

7.107. $\int \frac{\sin 2x}{\sqrt{\cos^4 x+3}}\,dx.$ **7.108*.** $\int \frac{dx}{\sin x\cos x}.$

7.109. $\int \frac{dx}{\operatorname{ctg}\sqrt{3}x}.$ **7.110.** $\int \operatorname{th} ax\,dx.$

7.111. $\int \operatorname{tg}^2(ax+b)\,dx.$ **7.112.** $\int x^2\operatorname{ctg}^2(x^3-3)\,dx.$

7.113. $\int e^{\sec x}\operatorname{tg} x\sec x\,dx.$

Gösterilen değiştirmeleri uygulayarak integralleri bulunuz:

7.114. $\int \frac{dx}{x\sqrt{1-x^3}}, \quad x = (1-t^2)^{1/3}.$

7.115. $\int \frac{dx}{x\sqrt{4-x^2}}, \quad x = \frac{2}{t}.$

7.116. $\int \frac{dx}{x+\sqrt{x}}, \quad x = t^2.$

7.117. $\int \frac{e^{2x}}{e^x+1}\,dx, \quad x = \ln t.$

Uygun değişken değiştirmesi yaparak integralleri hesaplayınız:

7.118. $\int x(5x-1)^{19}\,dx.$ **7.119.** $\int \frac{e^{3x}}{\sqrt{1-e^x}}\,dx.$

7.120. $\int \frac{x+2}{\sqrt{x+1}+1}\,dx.$ **7.121.** $\int \frac{x}{(3-x)^7}\,dx.$

7.122. $\int \frac{dx}{\sqrt{3+e^x}}.$ **7.123.** $\int \frac{dx}{x\sqrt{x^2+1}}.$

Kısmi integrasyon yöntemiyle integralleri hesaplayınız:

7.124. $\int \arccos x\,dx.$ **7.125.** $\int x\cos x\,dx.$

7.126. $\int x\ln x\,dx.$ **7.127.** $\int \frac{\ln x}{\sqrt[3]{x}}\,dx.$

7.128. $\int (x^2-x+1)\ln x\,dx.$ **7.129.** $\int x^2\sin x\,dx.$

7.130. $\int x^2e^{-x}\,dx.$ **7.131.** $\int x^3e^x\,dx.$

7.132*. $\int x^3e^{-x^2}\,dx.$ **7.133.** $\int \frac{\ln^2 x}{x^2}\,dx.$

7.134. $\int x\operatorname{arctg} x\,dx.$ **7.135.** $\int \frac{x\sin x}{\cos^3 x}\,dx.$

7.136. $\int e^{ax}\cos bx\,dx.$ **7.137.** $\int e^{\arccos x}\,dx.$

7.138. $\int \ln(x+\sqrt{1+x^2})\,dx.$ **7.139.** $\int x^3\ln x\,dx.$

7.140. $\int x3^x\,dx.$ **7.141.** $\int (x^2-2x+3)\cos x\,dx.$

7.142. $\int \frac{x\,dx}{\cos^2 x}.$ **7.143.** $\int \cos(\ln x)\,dx.$

Değişik yöntemler uygulayarak integralleri hesaplayınız:

7.144*. $\int e^{\sqrt{x}}\,dx.$ **7.145.** $\int x(\operatorname{arctg} x)^2\,dx.$

7.146. $\int \frac{\arcsin x}{x^2}\,dx.$ **7.147.** $\int x\operatorname{ctg}^2 x\,dx.$

7.148. $\int \frac{\cos^2 x}{e^x}\,dx.$ **7.149*.** $\int \frac{x^2}{(x^2+1)^2}\,dx.$

Integralleri bulunuz:

7.151.** $\int \sqrt{x^2+a}\,dx.$ **7.152**.** $\int \frac{x^2}{\sqrt{a^2-x^2}}\,dx.$

7.153. $\int x\arcsin x\,dx.$ **7.154.** $\int \frac{\ln(\ln x)}{x}\,dx.$

7.155. $\int x^2\operatorname{arctg} x\,dx.$ **7.156.** $\int \frac{\arcsin\sqrt{x}}{\sqrt{1-x}}\,dx.$

7.157*. $\int \sqrt{a^2-x^2}\,dx.$

Rasyonel kesrleri integralleyiniz.

1. Paydanın basit ve reel kökleri vardır:

2012. $\int \frac{x\,dx}{(x+1)(2x+1)}.$ **2013.** $\int \frac{x\,dx}{2x^2-3x-2}.$

2014. $\int \frac{2x^2+41x-91}{(x-1)(x+3)(x-4)}\,dx.$ **2015.** $\int \frac{dx}{6x^3-7x^2-3x}.$

2016. $\int \frac{x^5+x^4-8}{x^3-4x}\,dx.$ **2017.** $\int \frac{x^3-1}{4x^3-x}\,dx.$

2018. $\int \frac{32x\,dx}{(2x-1)(4x^2-16x+15)}.$ **2019.** $\int \frac{x\,dx}{x^4-3x^2+2}.$

2020. $\int \frac{(2x^2-5)\,dx}{x^3-5x^2+6}.$ **2021.** $\int \frac{x^5-2x^4+3x^3-9x^2+4}{x^3-5x^4+4x}\,dx.$

2. Paydanın basit veya katlı, reel kökleri vardır:

2022. $\int \frac{(x^2-3x+2)\,dx}{x(x^2+2x+1)}.$ **2023.** $\int \left(\frac{x+2}{x-1}\right)^2 \frac{dx}{x}.$

2024. $\int \frac{x^2\,dx}{x^3+5x^2+8x+4}.$ **2025.** $\int \frac{x^3+1}{x^3-x^2}\,dx.$

2026. $\int \frac{x^3-6x^2+11x-5}{(x-2)^4}\,dx.$ **2027.** $\int \frac{dx}{x^4-x^2}.$

2028. $\int \frac{x^2\,dx}{(x+2)^2(x+4)^2}.$ **2029.** $\int \frac{x^3-6x^2+9x+7}{(x-2)^3(x-5)}\,dx.$

2030. $\int \frac{1}{8}\left(\frac{x-1}{x+1}\right)^4 dx.$ **2031.** $\int \frac{x^5\,dx}{(x-1)^2(x^2-1)}.$

2032. $\int \frac{(x^3-2x+3)\,dx}{(x-1)(x^3-4x^2+3x)}.$ **2033.** $\int \frac{(7x^3-9)\,dx}{x^4-5x^3+6x^2}.$

2034. $\int \frac{x^3-2x^2+4}{x^3(x-2)^2}\,dx.$ **2035.** $\int \frac{3x^2+1}{(x^3-1)^3}\,dx.$

3. Paydanın basit, kompleks kökleri vardır:

2036. $\int \frac{dx}{x(x^2+1)}$.

2037. $\int \frac{dx}{1+x^3}$.

2038. $\int \frac{x\,dx}{x^3-1}$.

2039. $\int \frac{(2x^2-3x-3)\,dx}{(x-1)(x^2-2x+5)}$.

2040. $\int \frac{(x^4+1)\,dx}{x^3-x^2+x-1}$.

2041. $\int \frac{x^2\,dx}{1-x^4}$.

2042. $\int \frac{dx}{(x^2+1)(x^2+x)}$.

2043. $\int \frac{dx}{(x+1)^2(x^2+1)}$.

2044. $\int \frac{(3x^2+x+3)\,dx}{(x-1)^3(x^2+1)}$.

2045. $\int \frac{x^5+2x^3+4x+4}{x^4+2x^3+2x^2}\,dx$.

2046. $\int \frac{(x^3-6)\,dx}{x^4+6x^2+8}$.

2047*. $\int \frac{dx}{1+x^4}$.

1) $R\left(x, \sqrt[m]{\frac{ax+b}{a_1x+b_1}}, \sqrt[p]{\frac{ax+b}{a_1x+b_1}}, \ldots\right)$ formunda fonksiyonun integralini bulunuz:

2068. $\int \frac{dx}{x(\sqrt{x}+\sqrt[5]{x^2})}$.

2069. $\int \frac{dx}{\sqrt{x}+\sqrt[3]{x}+2\sqrt[6]{x}}$.

2070. $\int \frac{x\,dx}{(x+1)^{1/2}+(x+1)^{1/3}}$.

2071. $\int \sqrt{\frac{1-x}{1+x}}\,\frac{dx}{x}$.

2072. $\int \sqrt{\frac{1-\sqrt{x}}{1+\sqrt{x}}}\,dx$.

2073. $\int \frac{x^2+\sqrt{1+x}}{\sqrt[3]{1+x}}\,dx$.

2074. $\int \sqrt[3]{\frac{1-x}{1+x}}\,\frac{dx}{x}$.

2075*. $\int \frac{dx}{\sqrt[4]{(x-1)^3(x+2)^5}}$.

2) Binomyel diferansiyelin $x^m(a+bx^n)^p\,dx$ integarlini bulunuz:

2076. $\int \sqrt{x}\,(1+\sqrt[3]{x})^4\,dx$.

2077. $\int x^{-1}\left(1+x^{\frac{1}{3}}\right)^{-3}\,dx$.

2078. $\frac{dx}{x\sqrt[4]{x^2+1}}$.

2079. $\int x^5\sqrt[3]{(1+x^3)^2}\,dx$.

2080. $\int \frac{dx}{\sqrt[3]{1+x^3}}$.

2081. $\int \frac{dx}{\sqrt[4]{1+x^4}}$.

2082. $\int \frac{\sqrt{1-x^4}}{x^5}\,dx$.

2083. $\int \frac{\sqrt[3]{1+\sqrt[4]{x}}}{\sqrt{x}}\,dx$.

2084. $\int \frac{\sqrt[3]{1+\sqrt{x}}}{x}\,dx$.

2085. $\int \frac{dx}{x\sqrt[3]{1+x^2}}$.

2086. $\int \frac{\sqrt[3]{1+x^3}}{x^2}\,dx$.

2087. $\int \frac{dx}{x^{11}\sqrt{1+x^4}}$.

2088. $\int \sqrt[3]{x(1-x^2)}\,dx$.

2089. $\int \sqrt[3]{1+\sqrt[4]{x}}\,dx$.

2090—2131 'de trigonometrik fonksiyonların integrallerini bulunuz:

2090. $\int \sin^3 x \cos^2 x\, dx.$

2091. $\int \frac{\sin^3 x}{\cos^4 x}\, dx.$

2092. $\int \frac{dx}{\cos x \sin^3 x}.$

2093. $\int \frac{\sin^4 x}{\cos^2 x}\, dx.$

2094. $\int \frac{dx}{\cos^3 x \sin^3 x}.$

2095. $\int \frac{dx}{\sin^4 x \cos^4 x}.$

2096. $\int \frac{\sin x\, dx}{(1-\cos x)^2}.$

2097. $\int \frac{\cos x\, dx}{(1-\cos x)^2}.$

2098. $\int \cos^6 x\, dx.$

2099. $\int \operatorname{ctg}^4 x\, dx.$

2100. $\int \operatorname{tg}^5 x\, dx.$

2101. $\int \frac{dx}{\operatorname{tg}^6 x}.$

2102. $\int \frac{dx}{\sin^4 x}.$

2103. $\int \frac{\cos^4 x + \sin^4 x}{\cos^2 x - \sin^2 x}\, dx.$

2104. $\int \frac{dx}{(\sin x + \cos x)^2}.$

2105. $\int \frac{dx}{\sin x + \cos x}.$

2106. $\int \frac{dx}{a\cos x + b \sin x}.$

2107. $\int \frac{dx}{\operatorname{tg} x \cos 2x}.$

2108. $\int \frac{\cos^2 x\, dx}{\sin x \cos 3x}.$

2109. $\int \frac{dx}{1+\operatorname{tg} x}.$

2110. $\int \frac{dx}{5-3\cos x}.$

2111. $\int \frac{dx}{5+4\sin x}.$

2112. $\int \frac{2-\sin x}{2+\cos x}\, dx.$

2113. $\int \frac{\sin^2 x\, dx}{1-\operatorname{tg} x}.$

2114. $\int \frac{dx}{4+\operatorname{tg} x + 4\operatorname{ctg} x}.$

2115. $\int \frac{dx}{(\sin x + 2\sec x)^2}.$

2116. $\int \frac{dx}{5-4\sin x + 3\cos x}.$

2117. $\int \frac{dx}{4-3\cos^2 x + 5\sin^2 x}.$

2118. $\int \frac{dx}{1+\sin^2 x}.$

2119. $\int \frac{dx}{1-\sin^4 x}.$

2120. $\int \frac{dx}{a^2 \sin^2 x + b^2 \cos^2 x}.$

2121. $\int \frac{dx}{\sin^2 x + \operatorname{tg}^2 x}.$

2122. $\int \frac{\cos x\, dx}{\sin^3 x - \cos^3 x}.$

2123. $\int \sqrt{1+\sin x}\, dx.$

2124. $\int \frac{\sqrt{\operatorname{tg} x}}{\sin x \cos x}\, dx.$

2125*. $\int \frac{\sqrt{\sin^3 2x}}{\sin^3 x}\, dx.$

2126. $\int \frac{dx}{\sqrt[4]{\sin^3 x \cos^5 x}}.$

2127. $\int \frac{dx}{\sqrt{1-\sin^4 x}}.$

2128. $\int \sqrt{1+\operatorname{cosec} x}\, dx.$

2129. $\int \frac{(\cos 2x - 3)\, dx}{\cos^4 x \sqrt{4-\operatorname{ctg}^2 x}}.$

2130. $\int \frac{dx}{\sin \frac{x}{2} \sqrt{\cos^3 \frac{x}{2}}}.$

2131. $\int \sqrt{\operatorname{tg} x}\, dx.$

Hiperbolik fonksiyonların integrallerini bulunuz:

2132. $\int \operatorname{ch} x\,dx$.

2133. $\int \operatorname{sh} x\,dx$.

2134. $\int \frac{dx}{\operatorname{ch}^2 x}$.

2135. $\int \frac{e^x\,dx}{\operatorname{ch} x+\operatorname{sh} x}$.

2136. $\int (\operatorname{ch}^2 ax+\operatorname{sh}^2 ax)\,dx$.

2137. $\int \operatorname{sh}^2 x\,dx$.

2138. $\int \operatorname{th}^2 x\,dx$.

2139. $\int \operatorname{cth}^2 x\,dx$.

2141. $\int \operatorname{ch}^3 x\,dx$.

2142. $\int \operatorname{th}^4 x\,dx$.

2143. $\int \operatorname{sh}^2 x \operatorname{ch}^3 x\,dx$.

2144. $\int \operatorname{cth}^5 x\,dx$.

2145. $\int \frac{dx}{\operatorname{sh} x \operatorname{ch} x}$.

2146. $\int \frac{dx}{\operatorname{sh} x}$.

2147. $\int \frac{dx}{(1+\operatorname{ch} x)^2}$.

2148. $\int \sqrt{\operatorname{th} x}\,dx$.

2149. $\int \frac{x\,dx}{\operatorname{ch}^2 x}$.

2150. $\int \frac{e^{2x}\,dx}{\operatorname{sh}^4 x}$.

x ve $\sqrt{ax^2+bx+c}$ 'in rasyonel fonksiyonunun integalini bulunuz:

2151*. $\int \frac{dx}{x\sqrt{x^2+x+1}}$.

2152. $\int \frac{dx}{x\sqrt{x^2+4x-4}}$.

2153. $\int \frac{dx}{x\sqrt{x^2+2x-1}}$.

2154. $\int \frac{dx}{x\sqrt{2+x-x^2}}$.

2155. $\int \frac{\sqrt{2x+x^2}}{x^2}\,dx$.

2156. $\int \frac{dx}{(x-1)\sqrt{x^2+x+1}}$.

2157. $\int \frac{dx}{(2x-3)\sqrt{4x-x^2}}$.

2158. $\int \sqrt{x^2-2x-1}\,dx$.

2159. $\int \sqrt{3x^2-3x+1}\,dx$.

2160. $\int \sqrt{1-4x-x^2}\,dx$.

2161. $\int \frac{dx}{x-\sqrt{x^2-x+1}}$.

2162. $\int \frac{dx}{x^2(x+\sqrt{1+x^2})}$.

2163. $\int \frac{dx}{1+\sqrt{x^2+2x+2}}$.

2164. $\int \frac{x^2\,dx}{\sqrt{1-2x-x^2}}$.

2165. $\int \frac{(2x^2-3x)\,dx}{\sqrt{x^2-2x+5}}$.

2166. $\int \frac{3x^2-5x}{\sqrt{3-2x-x^2}}\,dx$.

2167. $\int \frac{3x^3\,dx}{\sqrt{x^2+4x+5}}$.

2168. $\int \frac{x^3-x+1}{\sqrt{x^2+2x+2}}\,dx$.

2169. $\int \frac{3x^3-8x+5}{\sqrt{x^2-4x-7}}\,dx$.

2170. $\int \frac{x^4\,dx}{\sqrt{x^2+4x+5}}$.

2171. $\int \frac{dx}{(x^3+3x^2+3x+1)\sqrt{x^2+2x-3}}$.

2172. $\int \frac{\sqrt{1+x^2}}{2+x^2}\,dx$.

2173. $\int \frac{(x-1)\,dx}{x^2\sqrt{2x^2-2x+1}}$.

2174. $\int \frac{(2x+3)\,dx}{(x^2+2x+3)\sqrt{x^2+2x+4}}$.

Çeşitli integralleri bulunuz:

2175. $\int \frac{x^3\,dx}{(x-1)^{12}}$.

2176. $\int \frac{x\,dx}{x-\sqrt{x^2-1}}$.

2177. $\int x\sqrt[3]{a+x}\,dx$.

2178. $\int \frac{dx}{ae^{mx}+be^{-mx}}$.

2179. $\int \frac{x\sqrt{1+x}}{\sqrt{1-x}}\,dx$.

2180. $\int \frac{x^4\,dx}{(x^2-1)(x+2)}$.

2181. $\int \frac{dx}{1-x^4}$.

2182. $\int \frac{dx}{(x^4-1)^2}$.

2183. $\int \frac{\ln(x+1)\,dx}{\sqrt{x+1}}$.

2184. $\int (x^2+3x+5)\cos 2x\,dx$.

2185. $\int x^2 \operatorname{sh} x\,dx$.

2186. $\int \operatorname{arctg}(1+\sqrt{x})\,dx$.

2187. $\int \frac{\arcsin x\,dx}{x^2}$.

2188. $\int e^{\sqrt[3]{x}}\,dx$.

2189. $\int xe^{\sqrt[3]{x}}\,dx$.

2190. $\int (x^3-2x^2+5)\,e^{3x}\,dx$.

2191. $\int \sin\sqrt{x}\,dx$.

2192. $\int \frac{dx}{x^3(x-1)^{1/2}}$.

2193. $\int \frac{dx}{x-\sqrt{x^2-1}}$.

2194. $\int \frac{\sqrt{(1+x^2)^5}}{x^6}\,dx$.

2195. $\int \frac{x^4\,dx}{\sqrt{x^2+1}}$.

2196. $\int \sqrt{\frac{1-\sqrt[3]{x}}{1+\sqrt[3]{x}}}\,\frac{dx}{x}$.

2197. $\int \frac{dx}{x^3\sqrt{(1+x)^3}}$.

2198. $\int \frac{\sqrt{2x+1}}{x^2}\,dx$.

2199. $\int \frac{x^3\,dx}{x^{15}-1}$.

2200. $\int \frac{dx}{\sin 2x - 2\sin x}$.

2201. $\int \frac{dx}{1+\cos^2 x}$.

2202. $\int \frac{dx}{a^2-b^2\cos^2 x}$.

2203. $\int x\ln(1+x^3)\,dx$.

2204. $\int \frac{(\ln x-1)\,dx}{\ln^2 x}$.

2205. $\int \frac{x\ln x}{\sqrt{(x^2-1)^3}}\,dx$.

2206. $\int x^2 e^x \cos x\,dx$.

2207. $\int xe^{x^2}(x^2+1)\,dx$.

2208. $\int \frac{dx}{\sqrt{\sin^3 x\cos^5 x}}$.

2209. $\int \frac{dx}{\sin^5 x\cos^3 x}$.

2210. $\int \frac{\sin 2x\,dx}{\cos^4 x+\sin^4 x}$.

2211. $\int \frac{dx}{1+\sin x+\cos x}$.

2212. $\int \sqrt{\operatorname{tg}^2 x+2}\,dx$.

2213. $\int \frac{(x^2-1)\,dx}{x\sqrt{x^4+3x^2+1}}$.

2214. $\int \frac{dx}{(2x-3)\sqrt{4x-x^2}}$.

2215. $\int \frac{xe^x\,dx}{(1+x)^2}$.