

1096. $\int 5\sqrt{x} \frac{dx}{\sqrt{x}}$.
 1097. $\int \frac{e^x}{e^x - 1} dx$.
 1098. $\int e^x \sqrt{a - be^x} dx$.
 1099. $\int (e^{\frac{x}{a}} + 1)^{\frac{1}{3}} e^{\frac{x}{a}} dx$.
 1100*. $\int \frac{dx}{2^x + 3}$.
 1101. $\int \frac{a^x dx}{1 + a^{2x}}$.
 1102. $\int \frac{e^{-bx}}{1 - e^{-2bx}} dx$.
 1103. $\int \frac{e^{tdt}}{\sqrt{1 - e^{2t}}}$.
 1104. $\int \sin(a + bx) dx$.
 1105. $\int \cos \frac{x}{\sqrt{2}} dx$.
 1106. $\int (\cos ax + \sin ax)^2 dx$.
 1107. $\int \cos \sqrt{x} \frac{dx}{\sqrt{x}}$.
 1108. $\int \sin(\lg x) \frac{dx}{x}$.
 1109*. $\int \sin^2 x dx$.
 1110*. $\int \cos^2 x dx$.
 1111. $\int \sec^2(ax + b) dx$.
 1112. $\int \operatorname{ctg}^2 ax dx$.
 1113. $\int \frac{dx}{\sin \frac{x}{a}}$.
 1114. $\int \frac{dx}{3 \cos \left(5x - \frac{\pi}{4}\right)}$.
 1115. $\int \frac{dx}{\sin(ax + b)}$.
 1116. $\int \frac{x dx}{\cos^2 x^2}$.
 1117. $\int x \sin(1 - x^2) dx$.

1118. $\int \left(\frac{1}{\sin x \sqrt{2}} - 1\right)^2 dx$.
 1119. $\int \operatorname{tg} x dx$.
 1120. $\int \operatorname{ctg} x dx$.
 1121. $\int \operatorname{ctg} \frac{x}{a-b} dx$.
 1122. $\int \frac{dx}{\operatorname{tg} \frac{x}{5}}$.
 1123. $\int \operatorname{tg} \sqrt{x} \frac{dx}{\sqrt{x}}$.
 1124. $\int x \operatorname{ctg}(x^2 + 1) dx$.
 1125. $\int \frac{dx}{\sin x \cos x}$.
 1126. $\int \cos \frac{x}{a} \sin \frac{x}{a} dx$.
 1127. $\int \sin^3 6x \cos 6x dx$.
 1128. $\int \frac{\cos ax}{\sin^5 ax} dx$.
 1129. $\int \frac{\sin 3x}{3 + \cos 3x} dx$.
 1130. $\int \frac{\sin x \cos x}{\sqrt{\cos^2 x - \sin^2 x}} dx$.
 1131. $\int \sqrt{1 + 3\cos^2 x} \sin 2x dx$.
 1132. $\int \operatorname{tg}^2 \frac{x}{3} \sec^2 \frac{x}{3} dx$.
 1133. $\int \frac{\sqrt{\operatorname{tg} x}}{\cos^2 x} dx$.
 1134. $\int \frac{\operatorname{ctg}^{\frac{2}{3}} x}{\sin^2 x} dx$.
 1135. $\int \frac{1 + \sin 3x}{\cos^2 3x} dx$.
 1136. $\int \frac{(\cos ax + \sin ax)^2}{\sin ax} dx$.
 1137. $\int \frac{\operatorname{cosec}^2 3x}{b - a \operatorname{ctg} 3x} dx$.
 1138. $\int (2 \operatorname{sh} 5x - 3 \operatorname{ch} 5x) dx$.
 1139. $\int \operatorname{sh}^2 x dx$.

1140. $\int \frac{dx}{\operatorname{sh} x}$.

1141. $\int \frac{dx}{\operatorname{ch} x}$.

1142. $\int \frac{dx}{\operatorname{sh} x \operatorname{ch} x}$

1143. $\int \operatorname{th} x dx$.

1144. $\int \operatorname{cth} x dx$.

Найти неопределенные интегралы:

1145. $\int x \sqrt[5]{5 - x^2} dx$.

1146. $\int \frac{x^3 - 1}{x^2 - 4x + 1} dx$.

1147. $\int \frac{x^3}{x^3 + 5} dx$.

1148. $\int x e^{-x^2} dx$.

1149. $\int \frac{3 - \sqrt{2 + 3x^2}}{2 + 3x^2} dx$.

1150. $\int \frac{x^3 - 1}{x + 1} dx$.

1151. $\int \frac{dx}{\sqrt{e^x}}$.

1152. $\int \frac{1 - \sin x}{x + \cos x} dx$.

1153. $\int \frac{\operatorname{tg} 3x - \operatorname{ctg} 3x}{\sin 3x} dx$.

1154. $\int \frac{dx}{x \ln^2 x}$.

1155. $\int \frac{\sec^2 x}{\sqrt{\operatorname{tg}^2 x - 2}} dx$.

1156. $\int \left(2 + \frac{x}{2x^2 + 1}\right) \frac{dx}{2x^2 + 1}$.

1157. $\int a^{\sin x} \cos x dx$.

1158. $\int \frac{x^2}{\sqrt[3]{x^3 + 1}} dx$.

1159. $\int \frac{x dx}{\sqrt{1 - x^4}}$.

1160. $\int \operatorname{tg}^2 ax dx$.

1161. $\int \sin^2 \frac{x}{2} dx$.

1162. $\int \frac{\sec^2 x dx}{\sqrt{4 - \operatorname{tg}^2 x}}$.

1163. $\int \frac{dx}{\cos \frac{x}{a}}$.

1164. $\int \frac{\sqrt[3]{1 + \ln x}}{x} dx$.

1165. $\int \operatorname{tg} \sqrt{x-1} \frac{dx}{\sqrt{x-1}}$.

1166. $\int \frac{x dx}{\sin x^2}$.

1167. $\int \frac{e^{\operatorname{arctg} x} + x \ln(1 + x^2) + 1}{1 + x^2} dx$.

1168. $\int \frac{\sin x - \cos x}{\sin x + \cos x} dx$.

1169. $\int \frac{\left(1 - \sin \frac{x}{\sqrt{2}}\right)^2}{\sin \frac{x}{\sqrt{2}}} dx$.

1170. $\int \frac{x^2}{x^2 - 2} dx$.

1171. $\int \frac{(1 + x)^2}{x(1 + x^2)} dx$.

1172. $\int e^{\sin^2 x} \sin 2x dx$.

1173. $\int \frac{5 - 3x}{\sqrt{4 - 3x^2}} dx$.

1174. $\int \frac{dx}{e^x + 1}$.

1175. $\int \frac{dx}{(a+b) + (a-b)x^2}$
($0 < b < a$).

1176. $\int \frac{e^x}{\sqrt{e^{2x} - 2}} dx$.