

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. $\int \frac{e^t dt}{\sqrt{1 - e^{2t}}}.$

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. $\int \sin^2 6x \cos 6x dx.$

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. $\int \operatorname{tg}^3 \frac{x}{3} \sec^2 \frac{x}{3} dx.$

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

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

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

1160. $\int \operatorname{tg}^3 ax dx.$

1161. $\int \operatorname{sh}^3 \frac{x}{2} dx.$

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

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