1680. $\int \dfrac{dx}{(1+x)\sqrt{x}}$.

У к а з а н и е. $\dfrac{dx}{\sqrt{x}} = 2d(\sqrt{x})$.

1681. $\int \sin\dfrac{1}{x} \cdot \dfrac{dx}{x^2}$

1682. $\int \dfrac{dx}{x\sqrt{x^3+1}}$.

1683. $\int \dfrac{dx}{x\sqrt{x^2-1}}$. **1684.** $\int \dfrac{dx}{(x^2+1)^{3/2}}$.

1685. $\int \dfrac{x\,dx}{(x^2-1)^{3/2}}$. **1686.** $\int \dfrac{x^2\,dx}{(8x^3+27)^{2/3}}$.

1687. $\int \dfrac{dx}{\sqrt{x(1+x)}}$. **1688.** $\int \dfrac{dx}{\sqrt{x(1-x)}}$.

1689. $\int xe^{-x^2}dx$. **1690.** $\int \dfrac{e^x\,dx}{2+e^x}$.

1691. $\int \dfrac{dx}{e^x+e^{-x}}$.

1692. $\int \dfrac{dx}{\sqrt{1+e^{2x}}}$.

1693. $\int \dfrac{\ln^2 x}{x}\,dx$. **1694.** $\int \dfrac{dx}{x\ln x\ln(\ln x)}$.

1695. $\int \sin^5 x \cos x\,dx$.

1696. $\int \dfrac{\sin x}{\sqrt{\cos^3 x}}\,dx$.

1697. $\int \operatorname{tg} x\,dx$. **1698.** $\int \operatorname{ctg} x\,dx$.

1699. $\int \dfrac{\sin x + \cos x}{\sqrt[3]{\sin x - \cos x}}\,dx$.

1700. $\int \dfrac{\sin x \cos x}{\sqrt{a^2\sin^2 x + b^2\cos^2 x}}\,dx$.

1700.1. $\int \dfrac{\sin x}{\sqrt{\cos 2x}}\,dx$. **1700.2.** $\int \dfrac{\cos x}{\sqrt{\cos 2x}}\,dx$.

1700.3. $\int \dfrac{\operatorname{sh} x}{\sqrt{\operatorname{ch} 2x}}\,dx$.