1847. $\int \frac{dx}{\sqrt{1-2x-x^2}}$. 1848. $\int \frac{ax}{\sqrt{x+x^2}}$.

1849. $\int \frac{dx}{\sqrt{2x^2-x+2}}$.

1850. Доказать, что если

$$y = ax^2 + bx + c \quad (a \neq 0),$$

то

$$\int \frac{dx}{\sqrt{y}} = \frac{1}{\sqrt{a}} \ln \left| \frac{y'}{2} + \sqrt{ay} \right| + C \text{ при } a>0$$

и

$$\int \frac{dx}{\sqrt{y}} = \frac{1}{\sqrt{-a}} \arcsin \frac{-y'}{\sqrt{b^2-4ac}} + C \text{ при } a<0.$$

1851. $\int \frac{x\,dx}{\sqrt{5+x-x^2}}$. 1852. $\int \frac{x+1}{\sqrt{x^2+x+1}}\,dx$.

1853. $\int \frac{x\,dx}{\sqrt{1-3x^2-2x^4}}$.

1853.1. $\int \frac{\cos x\,dx}{\sqrt{1+\sin x+\cos^2 x}}$.

1854. $\int \frac{x^2\,dx}{\sqrt{x^4-2x^2-1}}$.

1855. $\int \frac{x+x^3}{\sqrt{1+x^2-x^4}}\,dx$.

1856. $\int \frac{dx}{x\sqrt{x^2+x+1}}$.

1857. $\int \frac{dx}{x^2\sqrt{x^2+x-1}}$.

1858. $\int \frac{dx}{(x+1)\sqrt{x^2+1}}$.

1859. $\int \frac{dx}{(x-1)\sqrt{x^2-2}}$.

1860. $\int \frac{dx}{(x+2)^2\sqrt{x^2+2x-5}}$.

1861. $\int \sqrt{2+x-x^2}\,dx$. 1862. $\int \sqrt{2+x+x^2}\,dx$.