

12.20

tisdag 20 december 2022

17:27

$$\int e^{\sqrt{x}} dx = \left[ \begin{array}{l} t = \sqrt{x} \quad x = t^2 \\ \frac{dx}{dt} = 2t \quad dx = 2t dt \end{array} \right] = \int e^t \cdot \underset{\downarrow}{2t} dt = e^t 2t - \int 2e^t dt = 2te^t - 2e^t + \overset{-C_0}{C_1} = \underline{2e^{\sqrt{x}}(\sqrt{x} - 1) + C_1}$$