$$\int \frac{1}{x \sqrt{x}} dx = \int \frac{1}{x(x^{\frac{1}{2}})} dx = \int \frac{1}{x^{\frac{1}{2}}} dx$$

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

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

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