$$\frac{d}{dx}(\sqrt{x}) = \frac{d}{dx}(x^{1/2}) = \frac{1}{2} \cdot x^{\frac{2}{12}-1} = \frac{1}{2} \cdot x^{\frac{1}{12}} = \frac{1}{2} \cdot \frac{1}{\sqrt{x}}$$

$$\int \frac{\sin \sqrt{x}}{\sqrt{x}} dx = 2 \int \frac{1}{2} \frac{\sin \sqrt{x}}{\sqrt{x}} dx = 2 \int \frac{1}{2\sqrt{x}} - \sin \sqrt{x} dx =$$

(f'(x). senfex) dx = - cos fix) + 4