

$$\int \frac{3}{2\sqrt{x}} dx$$

$$\int \frac{3}{2\sqrt{x}} dx = \frac{3}{2} \int \frac{1}{x^{1/2}} dx = \frac{3}{2} \int x^{-1/2} dx =$$

$$= \frac{3}{2} \frac{x^{1/2}}{1/2} + C = 3 \cdot x^{1/2} + C = 3 \cdot \sqrt{x} + C$$