

$$\bullet \int \frac{1}{2\sqrt{x}} dx$$

$$\int \frac{1}{2\sqrt{x}} dx = \int \frac{1}{2x^{1/2}} dx = x^{1/2} + C$$

$$\text{Extra: } \frac{d}{dx}(\sqrt{x}) = \frac{1}{2} \frac{1}{\sqrt{x}}$$