

(Ex 10, problem 8.4)

$$\int \frac{1}{\sqrt{x+1}} dx$$

↓

$$u = x+1 \quad u \, du = dx \quad \rightarrow \quad \int \frac{1}{\sqrt{u}} du \rightarrow$$

$$\rightarrow \int \frac{1}{\sqrt{u}} = 2\sqrt{u} \rightarrow \underbrace{2\sqrt{x+1}}_{\text{order}} + C$$