$$\int \frac{x}{\sqrt{x+1}} dx \qquad \text{Utilitar c.v.}$$

$$\int \frac{x}{\sqrt{x+1}} dx = \int \frac{t^{1}-x}{\sqrt{t^{2}}} 2t dt = 2\int (t^{2}-1) dt = 8$$

$$\int \frac{x}{\sqrt{x+1}} dx = t^{2} \int \frac{t^{2}-x}{\sqrt{t^{2}-x}} dt = 2\int \frac{\sqrt{x+1}}{3} - \sqrt{x+1} dt$$

$$\int t^{n} dt = \frac{t^{n+1}}{n+1} + d + t^{n-1}$$