The result of integrating $\int \frac{1}{\sqrt{1+x}}\,dx$ is given by $2\sqrt{x+1}$
Here is some list of integrations to do

$$\int \frac{1}{\sqrt{1+x}}\,dx = 2\sqrt{x+1}$$

$$\int \sin x\,dx = -\cos(x)$$

$$\int x\sin x\,dx = -x\cos(x) + \sin(x)$$

$$\int x^2\sin x\,dx = -x^2\cos(x) + 2x\sin(x) + 2\cos(x)$$

$$\int xe^{2x}\,dx = \frac{(2x-1)\,e^{2x}}{4}$$

$$\int \frac{1}{1+u}\,du = \log(u+1)$$