$$\frac{Sin \times}{\sqrt{\log^2 x + 2 \cos x + 3}} dx = \begin{bmatrix} + = \cos x \\ \frac{dt}{dx} = -\sin x - dt = \sin x dx \end{bmatrix} = \int -\frac{1}{\sqrt{1 + 2t + 3}} dt = \int$$

$$\int \frac{\sin 2x}{\cos^3 x} dx = \int \frac{2 \cos x \cdot \sin x}{\cos^2 x \cdot \cos x} dx = 2 \int \frac{\sin x}{\cos^2 x} dx = \left[\frac{t = \cos x}{dt} - \sin x \cdot dt = \sin x \cdot dt\right] = -2 \int \frac{1}{t^2} dt = 2 \cdot \frac{1}{t} + C = \frac{2}{\cos x} + C$$