$$\int F\left(\sin x, \cos x\right) dx$$

$$\left| \begin{array}{l} t = tg\,\frac{x}{2} \\ \sin x = \dfrac{2t}{1+t^2} \\ \cos x = \dfrac{1-t^2}{1+t^2} \\ dx = \dfrac{2dt}{1+t^2} \end{array} \right|$$

$$\int F\left(\sin^2 x, \cos^2 x, \sin x \cos x\right) dx$$

$$\left| \begin{array}{l} t = tgx \\ \sin^2 x = \dfrac{t^2}{1+t^2} \\ \cos^2 x = \dfrac{1}{1+t^2} \\ \sin x \cos x = \dfrac{t}{1+t^2} \\ dx = \dfrac{dt}{1+t^2} \end{array} \right|$$