$$\int \frac{dx}{5-3\cos x} = \int \frac{u = tg^{\frac{x}{2}}}{\cos x} = \frac{1-u^2}{u^2+t}$$

$$= \int \frac{2 du}{(u^2+t)(5-\frac{3(1-u^2)}{u^2+t})} = \int \frac{2 du}{(u^2+t)(5+3-\frac{G}{u^2+t})} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2}})} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2})}} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2}})} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2})}} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2}})} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2})}} = \int \frac{1}{2 \cot g(2tg^{\frac{x}{2}})} = \int \frac{1}{2 \cot$$