

$$\begin{aligned} \frac{2.57}{k4} \textcircled{5} \int \frac{1+\sin^2 x}{1-\cos 2x} dx &= \int \frac{1+\sin^2 x}{2\sin^2 x} dx = \frac{1}{2} \left(\int \frac{1}{\sin^2 x} dx + \int \frac{1}{2} dx \right) = \\ &= -\frac{1}{2} \cot x + \frac{1}{2} x + C \end{aligned}$$