2.57 k4 (i)

$$\int \frac{1+\sin^2 x}{1-\cos 2x}\,dx = \int \frac{1+\sin^2 x}{2\sin^2 x}\,dx = \frac{1}{2}\int \frac{1}{\sin^2 x}\,dx + \int \frac{1}{2}\,dx =$$

$$= -\frac{1}{2}\cot x + \frac{1}{2}x + C$$