

**4**      **(i)** Prove the identity  $\frac{\sin x \tan x}{1 - \cos x} \equiv 1 + \frac{1}{\cos x}$ . [3]

**(ii)** Hence solve the equation  $\frac{\sin x \tan x}{1 - \cos x} + 2 = 0$ , for  $0^\circ \leq x \leq 360^\circ$ . [3]