

- 5** (i) Show that the equation $2 \tan^2 \theta \sin^2 \theta = 1$ can be written in the form

$$2 \sin^4 \theta + \sin^2 \theta - 1 = 0. \quad [2]$$

- (ii) Hence solve the equation $2 \tan^2 \theta \sin^2 \theta = 1$ for $0^\circ \leq \theta \leq 360^\circ$. [4]