3	In this question you must show detailed reasoning.	
	(a) Solve the equation $4\sin^2\theta = \tan^2\theta$ for $0^\circ \le \theta \le 180^\circ$.	[5]

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$$4\sin^2\theta = \tan^2\theta$$
 for $0^\circ \le \theta \le 180^\circ$. [5]

(b) Prove that $\frac{\sin^2\theta - 1 + \cos\theta}{1 - \cos\theta} \equiv \cos\theta$ ($\cos\theta \ne 1$).