

Q	Marking Instructions	AO	Marks	Typical Solution
13	Recalls a correct trig identity, which could lead to a correct answer	AO1.2	B1	(LHS \equiv) $\cot^2\theta - \cos^2\theta$ $\equiv \frac{\cos^2\theta}{\sin^2\theta} - \cos^2\theta$ $\equiv \cos^2\theta \left(\frac{1}{\sin^2\theta} - 1 \right)$ $\equiv \cos^2\theta (\operatorname{cosec}^2\theta - 1)$ $\equiv \cos^2\theta \cot^2\theta$ (\equiv RHS)
	Performs some correct algebraic manipulation and uses second identity to commence proof (at least two lines of argument)	AO2.1	R1	
	Concludes a rigorous mathematical argument to prove given identity AG Must start with one side and through clear logical steps arrive at the other side. In order to be sufficiently clear, each line should be a single step, unless clear further explanation is given.	AO2.1	R1	
	Total		3	(AG)