6	(a)	Prove the identity $\left(\frac{1}{\cos x} - \tan x\right) \left(\frac{1}{\sin x} + 1\right) \equiv \frac{1}{\tan x}$.	[4]
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	(b)	Hence solve the equation $\left(\frac{1}{\cos x} - \tan x\right) \left(\frac{1}{\sin x} + 1\right) = 2 \tan^2 x$ for $0^\circ \le x \le 180^\circ$.	[2]
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