MCR3UI Unit 5 Skill Reflection #6 PLEASE DO NOT WRITE ON THIS PAPER.
RECORD ALL ANSWERS ON SCRAP PAPER.

Prove each of the following identities.

a) $\sin\theta\csc\theta - \cos\theta\sec\theta = 0$ b) $\tan^2\theta = \sec^2\theta \div \csc^2\theta$ c) $\frac{\tan\theta}{\sec\theta} = \sin\theta$

d) $1+\sin^2\theta = 2-\cos^2\theta$ e) $\tan^2\theta + \sec^2\theta = \frac{1+\sin^2\theta}{\cos^2\theta}$ f) $\frac{1+\sin\theta}{\sec\theta} = \frac{\cos^3\theta}{1-\sin\theta}$ g) $\sec^2\theta + \csc^2\theta = \frac{1}{\sin^2\theta\cos^2\theta}$

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