

The Weekly Rigor

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“A mathematician is a machine for turning coffee into theorems.”

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Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions (Part 13)

53. $\sin^2 \theta \cdot \csc \theta = \csc \theta - \cos \theta \cdot \cot \theta.$

54. $\cos^2 \theta \cdot \sec \theta = \sec \theta - \sin \theta \cdot \tan \theta.$

$$55. \sin^2 \theta \cdot \cot \theta = \cot \theta - \cos^2 \theta \cdot \cot \theta.$$

$$56. \cos^2 \theta \cdot \tan \theta = \tan \theta - \sin^2 \theta \cdot \tan \theta.$$

“Only he who never plays, never loses.”

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