

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 18)

73. $\sec^2 \theta \cdot \csc \theta = \csc \theta + \csc \theta \cdot \tan^2 \theta.$

74. $\csc^2 \theta \cdot \sec \theta = \sec \theta + \sec \theta \cdot \cot^2 \theta.$

$$75. \sec^2 \theta \cdot \cot \theta = \cot \theta + \tan \theta.$$

$$76. \csc^2 \theta \cdot \tan \theta = \tan \theta + \cot \theta.$$

“Only he who never plays, never loses.”

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