

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 17)

69. $\sec^2 \theta \cdot \cos \theta = \cos \theta + \cos \theta \cdot \tan^2 \theta.$

70. $\csc^2 \theta \cdot \sin \theta = \sin \theta + \sin \theta \cdot \cot^2 \theta.$

$$71. \sec^2 \theta \cdot \tan \theta = \tan \theta + \tan^3 \theta.$$

$$72. \csc^2 \theta \cdot \cot \theta = \cot \theta + \cot^3 \theta.$$

“Only he who never plays, never loses.”

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