

The Weekly Rigor

No. 395

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

January 15, 2022

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions (Part 20)

81. $\cos \theta \cdot \cos \theta \cdot \sec \theta = \cos \theta \cdot \cot \theta \cdot \tan \theta.$

82. $\cos \theta \cdot \sin \theta \cdot \csc \theta = \cos \theta \cdot \cot \theta \cdot \tan \theta.$

83. $\sin \theta \cdot \tan \theta \cdot \csc \theta = \cos \theta \cdot \sec \theta \cdot \tan \theta.$

84. $\sin \theta \cdot \tan \theta \cdot \csc \theta = \tan \theta \cdot \cot \theta \cdot \cot \theta.$

“Only he who never plays, never loses.”