

The Weekly Rigor

No. 390

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

December 11, 2021

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions (Part 15)

61. $\tan^2 \theta \cdot \sec \theta = \sec^3 \theta - \sec \theta.$

62. $\cot^2 \theta \cdot \csc \theta = \csc^3 \theta - \csc \theta.$

$$63. \tan^2 \theta \cdot \csc \theta = \csc \theta \cdot \sec^2 \theta - \csc \theta.$$

$$64. \cot^2 \theta \cdot \sec \theta = \sec \theta \cdot \csc^2 \theta - \sec \theta.$$

“Only he who never plays, never loses.”

Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com