

The Weekly Rigor

No. 384

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

October 30, 2021

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions (Part 9)

37. $\sin \theta \cdot \tan \theta \cdot \sec \theta = \sec^2 \theta - 1.$

38. $\cos \theta \cdot \cot \theta \cdot \csc \theta = \csc^2 \theta - 1.$

39. $\tan \theta \cdot \sec \theta \cdot \csc \theta = \tan^2 \theta + 1.$

40. $\cot \theta \cdot \csc \theta \cdot \sec \theta = 1 + \cot^2 \theta.$

“Only he who never plays, never loses.”

Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com