

The Weekly Rigor

No. 372

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

August 7, 2021

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Two Trigonometric Functions: Problems with Solutions (Part 6)

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

24. $\sin \theta \cdot \csc \theta = \cos^2 \theta \cdot \tan^2 \theta + \sin^2 \theta \cdot \cot^2 \theta.$

$$25. \cos \theta \cdot \sec \theta = \cos^2 \theta \cdot \tan^2 \theta + \sin^2 \theta \cdot \cot^2 \theta.$$

$$26. \tan \theta \cdot \cot \theta = \cos^2 \theta \cdot \tan^2 \theta + \sin^2 \theta \cdot \cot^2 \theta.$$

“Only he who never plays, never loses.”

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