

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 Two Trigonometric Functions: Problems with Solutions (Part 3)

9. $\tan \theta \cdot \cot \theta = 1.$

10. $\sin \theta \cdot \cos \theta = \frac{1}{\csc \theta \cdot \sec \theta}.$

11. $\sec \theta \cdot \csc \theta = \frac{1}{\cos \theta \cdot \sin \theta}.$

12. $\sin \theta \cdot \csc \theta = \sin^2 \theta + \cos^2 \theta.$

13. $\cos \theta \cdot \sec \theta = \sin^2 \theta + \cos^2 \theta.$

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

“Only he who never plays, never loses.”

Written and published every Saturday by Richard Shedenhelm

WeeklyRigor@gmail.com