

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 Three Trigonometric Functions: Problems with Solutions (Part 7)

29. $\tan \theta \cdot \sec \theta \cdot \csc \theta = \sec^2 \theta.$

30. $\cot \theta \cdot \csc \theta \cdot \sec \theta = \csc^2 \theta.$

$$31. \tan \theta \cdot \csc \theta \cdot \csc \theta = \frac{1}{\cos \theta \cdot \sin \theta}.$$

$$32. \cot \theta \cdot \sec \theta \cdot \sec \theta = \frac{1}{\sin \theta \cdot \cos \theta}.$$

“Only he who never plays, never loses.”

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