

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 3)

9. $\sin \theta \cdot \sec \theta \cdot \csc \theta = \sec \theta.$

10. $\cos \theta \cdot \csc \theta \cdot \sec \theta = \csc \theta.$

11. $\sin \theta \cdot \csc \theta \cdot \csc \theta = \csc \theta.$

12. $\cos \theta \cdot \sec \theta \cdot \sec \theta = \sec \theta.$

13. $\sin \theta \cdot \csc \theta \cdot \cot \theta = \cot \theta.$

14. $\cos \theta \cdot \sec \theta \cdot \tan \theta = \tan \theta.$

15. $\tan \theta \cdot \csc \theta \cdot \cot \theta = \csc \theta.$

16. $\cot \theta \cdot \sec \theta \cdot \tan \theta = \sec \theta.$

“Only he who never plays, never loses.”

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