

# The Weekly Rigor

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No. 380

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

October 2, 2021

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## **Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions**

(Part 5)

21.  $\sin \theta \cdot \sin \theta \cdot \cot \theta = \sin \theta \cdot \cos \theta.$

22.  $\cos \theta \cdot \cos \theta \cdot \tan \theta = \cos \theta \cdot \sin \theta.$

23.  $\sin \theta \cdot \sec \theta \cdot \cot \theta = 1.$

24.  $\cos \theta \cdot \csc \theta \cdot \tan \theta = 1.$

“Only he who never plays, never loses.”

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