

# The Weekly Rigor

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No. 389

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

December 4, 2021

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## **Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions** (Part 14)

57.  $\tan^2 \theta \cdot \sin \theta = \tan \theta \cdot \sec \theta - \sin \theta.$

58.  $\cot^2 \theta \cdot \cos \theta = \cot \theta \cdot \csc \theta - \cos \theta.$

$$59. \tan^2 \theta \cdot \cos \theta = \sec \theta - \cos \theta.$$

$$60. \cot^2 \theta \cdot \sin \theta = \csc \theta - \sin \theta.$$

“Only he who never plays, never loses.”

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