

The Weekly Rigor

No. 385

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

November 6, 2021

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions (Part 10)

41. $\sin^3 \theta = \sin \theta - \sin \theta \cdot \cos^2 \theta.$

42. $\cos^3 \theta = \cos \theta - \cos \theta \cdot \sin^2 \theta.$

$$43. \tan^3 \theta = \tan \theta \cdot \sec^2 \theta - \tan \theta.$$

$$44. \cot^3 \theta = \cot \theta \cdot \csc^2 \theta - \cot \theta.$$

“Only he who never plays, never loses.”

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