

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 11)

45. $\sec^3 \theta = \sec \theta + \sec \theta \cdot \tan^2 \theta.$

46. $\csc^3 \theta = \csc \theta + \csc \theta \cdot \cot^2 \theta.$

$$47. \sin^2 \theta \cdot \cos \theta = \cos \theta - \cos^3 \theta.$$

$$48. \cos^2 \theta \cdot \sin \theta = \sin \theta - \sin^3 \theta.$$

“Only he who never plays, never loses.”

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