

# The Weekly Rigor

---

No. 371

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

July 31, 2021

---

## **Verifying Trigonometric Identities with Simple Arguments Involving the Product of Two Trigonometric Functions: Problems with Solutions (Part 5)**

19.  $\sin \theta \cdot \cos \theta = \frac{\sin \theta}{\sec \theta}.$

20.  $\cos \theta \cdot \sin \theta = \frac{\cos \theta}{\csc \theta}.$

21.  $\sin \theta \cdot \csc \theta = \cos \theta \cdot \sec \theta.$

22.  $\sin \theta \cdot \csc \theta = \tan \theta \cdot \cot \theta.$

“Only he who never plays, never loses.”

---

Written and published every Saturday by Richard Shedenhelm

[WeeklyRigor@gmail.com](mailto:WeeklyRigor@gmail.com)