Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions
(Part 15)

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

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

63. $\tan^2\theta \cdot \csc\theta = \csc\theta \cdot \sec^2\theta - \csc\theta$.

64. $\cot^2\theta \cdot \sec\theta = \sec\theta \cdot \csc^2\theta - \sec\theta$.