Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions
(Part 12)

49. $\sin^2\theta \cdot \tan\theta = \tan\theta - \cos\theta \cdot \sin\theta$.

50. $\cos^2\theta \cdot \cot\theta = \cot\theta - \sin\theta \cdot \cos\theta$.

51. $\sin^2\theta \cdot \sec\theta = \sec\theta - \cos\theta$.

52. $\cos^2\theta \cdot \csc\theta = \csc\theta - \sin\theta$.