Verifying Trigonometric Identities with Simple Arguments Involving the Product of Two Trigonometric Functions: Problems with Solutions
(Part 3)

9. $\tan\theta \cdot \cot\theta = 1$.

10. $\sin\theta \cdot \cos\theta = \dfrac{1}{\csc\theta \cdot \sec\theta}$.

11. $\sec\theta \cdot \csc\theta = \dfrac{1}{\cos\theta \cdot \sin\theta}$.

12. $\sin\theta \cdot \csc\theta = \sin^2\theta + \cos^2\theta$.

13. $\cos\theta \cdot \sec\theta = \sin^2\theta + \cos^2\theta.$

14. $\tan\theta \cdot \cot\theta = \sin^2\theta + \cos^2\theta.$