The Weekly Rigor

Verifying Trigonometric Identities with Simple Arguments Involving the Product of Three Trigonometric Functions: Problems with Solutions
(Part 4)

17. $\tan\theta \cdot \tan\theta \cdot \cot\theta = \tan\theta$.

18. $\cot\theta \cdot \cot\theta \cdot \tan\theta = \cot\theta$.

19. $\sin\theta \cdot \sin\theta \cdot \sec\theta = \sin\theta \cdot \tan\theta$.

20. $\cos\theta \cdot \cos\theta \cdot \csc\theta = \cos\theta \cdot \cot\theta$.