

College ALG 7.2d Trigonometric Identities

Verify: $\tan\theta\sin\theta = \frac{1-\cos^2\theta}{\cos\theta}$

Verify: $\frac{\cos\theta}{\sec\theta+1} + \frac{\cos\theta}{\sec\theta-1} = 2\cot^2\theta$

Verify: $\csc x + 1 = \frac{\cot^2 x}{\csc x - 1}$

Verify: $\cot \theta + \tan \theta = \csc \theta \sec \theta.$

Verify: $\frac{\sec^2 x - 1}{\sec^2 x} = \sin^2 x$

Verify: $\frac{1}{1 - \sin \alpha} + \frac{1}{1 + \sin \alpha} = 2 \sec^2 \alpha$

Verify: $\tan \beta + \cot \beta = \sec \beta \csc \beta$