

Verify - Allied angles

Verify the following.

1) $\cot(-\theta) \cos\left(\frac{3\pi}{2} + \theta\right) \sin\left(\frac{\pi}{2} + \theta\right) + 1 = \sin^2 \theta$

2) $\tan(-585^\circ) \csc$

3) $\frac{\sec(2\pi + \theta) \csc}{\tan(2\pi + \theta)}$

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Verify - Allied angles

Verify the following.

4) $\cot (90^\circ - \theta) \csc (180^\circ + \theta) + \sec (-\theta) \sin (270^\circ - \theta) = -\sec \theta - 1$

5)
$$\frac{\sin (-\theta) \csc \left(\frac{\pi}{2}\right)}{\tan \left(\frac{\pi}{2} + \theta\right)}$$

6) $\tan (90^\circ - \theta) \sin$

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