

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Basic Trigonometric Identities

Simplify or verify each identity. State the restrictions from the original expression and show the named identity used at each step.

1. Verify $\sin(2x)/\cos(2x) = \tan(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

2. Simplify $1/\cos(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

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Basic Trigonometric Identities

Simplify or verify each identity. State the restrictions from the original expression and show the named identity used at each step.

3. Verify $1 + \tan^2(2x) = \sec^2(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

4. Simplify $(1 - \cos^2(2x))/\sin(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

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Basic Trigonometric Identities

Simplify or verify each identity. State the restrictions from the original expression and show the named identity used at each step.

5. Verify $1 - \sin^2(2x) = \cos^2(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

6. Simplify $\cos(2x)/\sin(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

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Basic Trigonometric Identities

Simplify or verify each identity. State the restrictions from the original expression and show the named identity used at each step.

7. Verify $(\sec^2(2x) - 1)/\tan(2x) = \tan(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____

8. Simplify $1/\sin(2x)$. State the original-domain restrictions.

Original-domain restrictions: _____
