Identities Quiz coming soon!!

- *Quiz yourself right now.
- *No notes, fill in as many blanks as possible.
- *Grade your work.
- *Use the practice quiz as a guide to study for tomorrow's quiz (same format, questions will be in a different order.)

Name the function that best completes each statement.

Quotient Identities:

1.
$$\underline{\hspace{1cm}} = \frac{\cos \theta}{\sin \theta}$$
 2. $\underline{\hspace{1cm}} = \frac{\sin \theta}{\cos \theta}$

Opposite Angle Identities:

3.
$$\sin(-\theta) =$$
 4. $\cos(-\theta) =$ _____

Reciprocal identities:

5.
$$=\frac{1}{\tan\theta}$$

6.
$$= \frac{1}{\cos\theta}$$

7. ____ =
$$\frac{1}{\sin \theta}$$

Pythagorean identities:

Double angle identities:

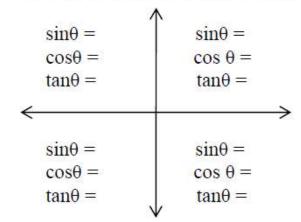
9.
$$\sin 2\theta =$$

#11-12: Derive the other two Pythagorean identities using the information in #8. Clearly show all steps.

11.

12.

13. Fill in + or - next to each function to indicate its sign for each quadrant.



Identities *Practice* Quiz



Name the function that best completes each statement.

Ouotient Identities:

1.
$$\frac{\cot \theta}{\sin \theta} = \frac{\cos \theta}{\sin \theta}$$

2.
$$\frac{\tan \theta}{\cos \theta} = \frac{\sin \theta}{\cos \theta}$$

Opposite Angle Identities:

3.
$$\sin(-\theta) = -\sin(\theta)$$
 4. $\cos(-\theta) = \cos(\theta)$

4.
$$\cos(-\theta) = \frac{\cos(\theta)}{\cos(\theta)}$$

Reciprocal identities:

5.
$$\frac{\cot \theta}{\tan \theta} = \frac{1}{\tan \theta}$$

6.
$$\frac{\sec\theta}{\cos\theta} = \frac{1}{\cos\theta}$$

7.
$$\frac{\csc\theta}{\sin\theta} = \frac{1}{\sin\theta}$$

Pythagorean identities:

8.
$$\underline{\sin^2\theta} + \underline{\cos^2\theta} = 1$$

Double angle identities:

9.
$$\sin 2\theta = 2\sin\theta\cos\theta$$

10.
$$\cos 2\theta = \frac{\cos^2 \theta}{\cos^2 \theta} - \frac{\sin^2 \theta}{\cos^2 \theta}$$

#9-10: Derive the other two Pythagorean identities using the information in #8. Clearly show all steps.

show all steps.

9.
$$\frac{\sin^2\theta}{\sin^2\theta} + \frac{\cos^2\theta}{\sin^2\theta} = \frac{1}{\sin^2\theta}$$
 $\frac{\sin^2\theta}{\cos^2\theta} + \frac{\cos^2\theta}{\cos^2\theta} = \frac{1}{\cos^2\theta}$

10. $\frac{\sin^2\theta}{\cos^2\theta} + \frac{\cos^2\theta}{\cos^2\theta} = \frac{1}{\cos^2\theta}$
 $\frac{\sin^2\theta}{\cos^2\theta} + \frac{\cos^2\theta}{\cos^2\theta} = \frac{1}{\cos^2\theta}$

Simplify

Aivide

13. Fill in + or – next to each function to indicate its sign for each quadrant.

$$sin\theta = +
cos\theta = -
tanθ = -
cos θ = +
tanθ = -
cos θ = -
tanθ = +
tanθ = -
tanθ =$$