Identities *Practice* Quiz

Name the function that best completes each statement.

Quotient Identities:

1. _____ = $\frac{\cos\theta}{\sin\theta}$ 2. _____ = $\frac{\sin\theta}{\cos\theta}$

Opposite Angle Identities:

3. sin(-θ) = _____ 4. cos(-θ) = _____

Reciprocal identities:

5. _____ = $\frac{1}{\tan\theta}$
6. _____ = $\frac{1}{\cos\theta}$
7. _____ = $\frac{1}{\sin\theta}$

Pythagorean identities:

8. _____ + _____ = 1

Double angle identities:

9. sin 2θ = _____

10. cos2θ = _____ – _____

#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.