

Writing Assignment 4: Trig Identities**Due: Friday, October 10, 2008** (40 pts)

Name _____

Section: 11:00 Row _____

Reduce to a single term. Select from this list. Verify your claim. Attach work.

(4) 1. $\frac{\cos^2 \theta}{\sin \theta} + \frac{1}{\csc \theta}$

(4) 2. $\frac{\sin^3 \theta}{\cos \theta} + \sin \theta \cos \theta$

(4) 3. $\frac{1}{1 - \cos \theta} + \frac{1}{1 + \cos \theta}$

(4) 4. $\sin \theta \sec \theta$

(4) 5. $\tan \theta \cos \theta$

(4) 6. $\csc(-\theta) \tan(-\theta)$

(4) 7. $\tan \theta \sin \theta + \cos \theta$

(4) 8. $\frac{\sin \theta}{1 - \cos \theta} - \frac{\sin \theta}{1 + \cos \theta}$

(4) 9. $\frac{1 - \cos \theta}{\sec \theta - 1}$

(4) 10. $\sin \theta + \frac{\cot^2 \theta}{\csc \theta}$

A. $\sin \theta$ B. $\cos \theta$ C. $\tan \theta$ D. $\csc \theta$ E. $\sec \theta$ F. $\cot \theta$ G. $2 \cot \theta$ H. $2 \cot^2 \theta$ I. $2 \csc \theta$ J. $2 \csc^2 \theta$

K. None of these