

8. The expression $\sec^2 \theta + \csc^2 \theta$ is equivalent to

- a) $1 - \tan^2 \theta$ b) $1 + \tan^2 \theta$ c) $\frac{1}{\sin^2 \theta \cos^2 \theta}$ d) $\sin^2 \theta \cos^2 \theta$

9. The expression $\frac{\sin^2 B}{\cos B} + \cos B$ is equivalent to

- a) 1 b) $\frac{1}{\cos B}$ c) $\frac{1}{\sec B}$ d) $\sin^2 B$

10. The expression $\cos \theta (\sec \theta - \cos \theta)$ is equivalent to

- a) 1 b) $\sin \theta$ c) $\sin^2 \theta$ d) $-\cos^2 \theta$

11. Expressed in the simplest form, $\csc \theta \cdot \tan \theta \cdot \cos \theta$ is equivalent to

- a) 1 b) $\sin \theta$ c) $\cos \theta$ d) $\tan \theta$

12. The expression $\sin \theta (\cot \theta - \csc \theta)$ is equivalent to

- a) $\cos \theta - \sin^2 \theta$ b) $2 \cos \theta$ c) $-\sin \theta$ d) $\cos \theta - 1$

13. The expression $\frac{\sin x \bullet \cos x}{\tan x}$ is equivalent to

- a) 1 b) $\sin^2 x$ c) $\cos x$ d) $\cos^2 x$

Verify each identity.

14. $\frac{1}{1 - \cos \theta} - \frac{1}{1 + \cos \theta} = 2 \csc \theta \cot \theta$

Pre-AP Pre-Cal Identities Quiz A 10/29/2012

Answer List

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|-------|-------|-------|
| 1. c | 2. a | 3. a |
| 4. d | 5. c | 6. b |
| 7. c | 8. c | 9. b |
| 10. c | 11. a | 12. d |
| 13. d | 14. | |

Catalog List

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|----------------|----------------|----------------|
| 1. NY1 HE 8 | 2. NY1 HE 24 | 3. NY1 HE 35 |
| 4. NY1 HE 38 | 5. NY1 HE 52 | 6. NY1 HE 104 |
| 7. NY1 HE 109 | 8. NY1 HE 123 | 9. NY1 HE 189 |
| 10. NY1 HE 213 | 11. NY1 HE 285 | 12. NY1 HE 303 |
| 13. NY1 HE 313 | 14. TRI QC 45 | |