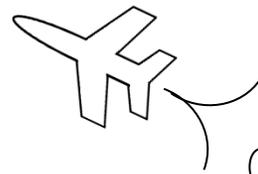


MAth on the Fly!



NAME: _____ DATE: _____

Trigonometric Identities

Use trigonometric identities to simplify each expression.

1. $\sec x \csc x \cos x$

2. $\csc x \sin^2 x \cot x$

3. $\frac{\tan x}{\sec x}$

4. $\frac{\cos x \sin x}{\tan x}$

5. $\cos(90^\circ - x) \csc x$

6. $1 - \sin^2 x - \cos^2 x$

7. $2\sin^2 x + \cos^2 x - \sin^2 x$

8. $\sin(90^\circ - x) \tan x$

9. $\frac{\sin x}{\csc x} + \frac{\cos x}{\sec x}$

10. $\frac{\sqrt{1 - \cos^2 x}}{\sqrt{1 - \sin^2 x}}$

SOLUTIONS

1. $\frac{1}{\sin x}$ or $\csc x$

2. $\cos x$

3. $\sin x$

4. $\cos^2 x$

5. 1

6. 0

7. 1

8. $\sin x$

9. 1

10. $\frac{\sin x}{\cos x}$ or $\tan x$