

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

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

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

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

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

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

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

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

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$\sin^2 \theta = 1 - \cos^2 \theta$$

$$\cos^2 \theta = 1 - \sin^2 \theta$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$\tan^2 \theta = \sec^2 \theta - 1$$

$$-\tan^2 \theta = 1 - \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

$$\cot^2 \theta = \csc^2 \theta - 1$$

$$-\cot^2 \theta = 1 - \csc^2 \theta$$

Example 1: Use Trigonometric Identities to write each expression in terms of a single trigonometric identity or a constant.

a. $\tan \theta \cos \theta$
 $\frac{\sin \theta}{\cos \theta} \cdot \frac{\cos \theta}{1}$

$$\boxed{\sin \theta}$$

b. $\frac{1 - \cos^2 \theta}{\cos^2 \theta} = \frac{\sin^2 \theta}{\cos^2 \theta} = \boxed{\tan^2 \theta}$

Strategies:
 * Leave sine or cosine
 * Try to replace anything else w/ sine/cosine

c. $\cos \theta \csc \theta$ replace
 $\frac{\cos \theta}{1} \cdot \frac{1}{\sin \theta} = \frac{\cos \theta}{\sin \theta}$
 $= \boxed{\cot \theta}$

d. $\frac{\sin \theta \sec \theta}{\tan \theta} = \frac{\frac{\sin \theta}{1} \cdot \frac{1}{\cos \theta}}{\tan \theta} = \frac{\frac{\sin \theta}{\cos \theta}}{\tan \theta}$
 $= \frac{\tan \theta}{\tan \theta} = \boxed{1}$

Example 2: Simplify the complex fraction.

a. $\frac{\frac{2}{3}}{\frac{15}{42}} = \frac{2}{3} \cdot \frac{42}{15} = \frac{5}{2}$

b. $\frac{\frac{3}{4}}{\frac{3}{15}}$

change $\div$ to $\times$ & flip the fraction!

d. $\frac{\frac{3}{2}}{\frac{3}{15}}$

Answer Key Trig Identities Lesson 1 Identities

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