

Find it! Game

Trigonometric  
Identities

The Basic Identities

# Directions

- Print out the game and make enough copies so that every two people will have a copy. Optional: Place in page protectors and let students use expo markers to reuse them.
- Divide your class into pairs.
- Each pair of students needs a different colored writing utensil.
- The teacher calls out part of a trig identity and the student finds its match (what it is equal to). If the expression is  $\frac{1}{\cos \theta}$ , then the students will look for  $\sec \theta$ . The first person to find and circle the answer gets a point.
- Repeat.
- Play continues until all expressions have been used up or a certain time limit.
- The player with the most circled expression is the winner!

# Trig Identities

## Game 1

$$\frac{1}{\sec \theta} \quad \frac{1}{\csc \theta} \quad 1 + \cot^2 \theta \quad \sec^2 \theta$$
$$\frac{\cos \theta}{\sin \theta} \quad \frac{1}{\cot \theta} \quad \cos \theta$$
$$1 + \tan^2 \theta \quad \csc^2 \theta - \cot^2 \theta \quad 1 \quad \frac{1}{\cos \theta}$$
$$\sec \theta \quad \sin \theta \quad \cot \theta \quad \csc \theta \quad \frac{1}{\sin \theta}$$
$$\tan \theta$$

# Trig Identities

## Game 2

$$1 + \tan^2 \theta \quad 1 + \cot^2 \theta \quad 1 - \cos^2 \theta \quad \sin^2 \theta + \cos^2 \theta$$
$$\sec \theta \quad \frac{1}{\tan \theta} \quad 1 - \sin^2 \theta \quad \frac{\sin \theta}{\cos \theta}$$
$$\sin \theta \quad \cos \theta \quad \frac{1}{\csc \theta} \quad \frac{1}{\cos \theta} \quad \frac{1}{\sec \theta}$$
$$\sec^2 \theta \quad \csc \theta \quad 1 \quad \csc^2 \theta \quad \frac{1}{\sin \theta}$$

# Thank you for your purchase!



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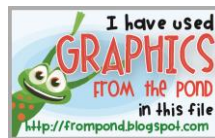
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