

**Identity Quiz**

Name \_\_\_\_\_

Teacher: \_\_\_\_\_

Use the given information to solve for the angle measure of each trig function.

1. If  $\sec \theta = \frac{3}{2}$ , find  $\cos \theta$

2. If  $\cot \theta = \frac{2\sqrt{2}}{3}$ , find  $\tan \theta$

3. If  $\sin \theta = \frac{1}{5}$ , find  $\cos \theta$

4. If  $\tan \theta = \frac{4}{7}$ , find  $\sec \theta$

Verify the following trigonometry identities. Show each steps in your explanation.

5.  $\frac{\cot A}{\tan A} = \cot^2 A$

6.  $\frac{\sin^2 B \cot B}{\cos B} = \sin B$

7.  $\cos x \tan x = \sin x$

8.  $\cos x + \sin x \tan x = \sec x$

9.  $\csc x \tan x \cos x = 1$

10.  $\sin^2 \theta \sec \theta \csc \theta = \tan \theta$