

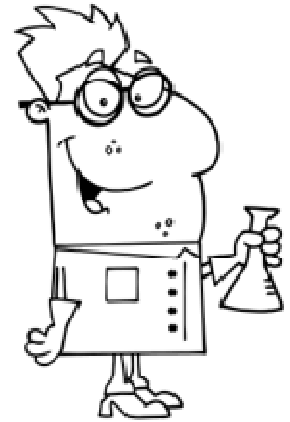
Name \_\_\_\_\_

Date \_\_\_\_\_

## Pythagorean Identities - Guided Lesson

Complete the following problems:

1) Verify:  $(\sin x)(\cot x + \cos x \tan x) = \cos x + \sin^2 x$



2) Simplify:  $\frac{1 - \cos^2 x}{\sec^2 x - 1}$

3) Verify:  $\frac{1 + \sec x}{\csc x} = \sin x + \tan x$

