

Name \_\_\_\_\_

Date \_\_\_\_\_

## Pythagorean Identities - Guided Lesson

Complete the following problems:

1) Simplify the expression:  $(\sec^2 x - 1) (\cot x)$  to a single trigonometric function.

2) Simplify  $\sin^2 x + \sin^2 x \cot^2 x$

3) If  $\csc \Theta = \frac{7}{6}$  and  $\tan \Theta = \frac{6}{3.6}$

Find the values of the  $\cos \Theta$ , using a Pythagorean identity.

