

## Trigonometric Identities Worksheet

NAME:

DATE:

1. Use the basic trigonometric identities to help find the remaining five trigonometric functional values if  $\tan \theta = -\frac{1}{2}$  and  $\cos \theta > 0$ .

2. Verify the identity:

$$\sec x - \cos x = \sin x \tan x$$

3. Verify the identity:

$$\frac{(\cos x + \tan x)}{\sin x \cos x} = \csc x + \sec^2 x$$

4. Verify the identity:

$$\frac{1 + \cos x}{\sin x} + \frac{\sin x}{1 + \cos x} = 2 \csc x$$