



Name: _____

Date: _____

Period: _____

Assignment 7B: 6 Trigonometry Functions

Answer the following problems with as much detail, explanation, and work that is appropriate.

1. If $\cos(\theta) = \frac{1}{5}$, and θ is in quadrant I, find $\sin(\theta)$, $\sec(\theta)$, $\csc(\theta)$, $\tan(\theta)$, $\cot(\theta)$

2. If $\tan(\theta) = 4$, and $0 \leq \theta < \frac{\pi}{2}$, find $\sin(\theta)$, $\cos(\theta)$, $\sec(\theta)$, $\csc(\theta)$, $\cot(\theta)$

Simplify each of the following to an expression involving a single trig function with no fractions. To do this, it may help to rewrite each trig. function in terms of *opposite*, *adjacent*, and *hypotenuse*.

1. $\csc(t) \tan(t)$

2. $\cos(t) \csc(t)$

3. $\frac{\sec(t)}{\csc(t)}$

4. $\frac{\cot(t)}{\csc(t)}$

Go Beyond:

