

NAME:

Quiz 7 [25 pts]. Due in-class on July 5, 2007.

Math 0115 Sec 0101 Summer 2007

[8] **1.** Simplify the trigonometric expression: $\frac{1 + \csc x}{\cos x \cot x}$

[9] **2.** Verify the identity: $\frac{\sec x + \csc x}{\tan x + \cot x} = \sin x + \cos x$

[8] **3.** Make the indicated trigonometric substitution and simplify: $\frac{1}{x^2\sqrt{4+x^2}}$, $x = 2 \tan \theta$