

Name: _____

MATH 104

Spring 2023

HW 7: Due 05/04

*“Pure mathematics is, in its way, the
poetry of logical ideas.”*

–Albert Einstein

Problem 1. (10pt) Verify the following trigonometric identity:

$$\frac{\cos x}{1 - \sin x} = \sec x + \tan x$$

Problem 2. (10pt) Verify the following trigonometric identity:

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