

Homework 7

Name:

Date: June 4, 2013

P 1. Verify

$$\frac{\cot^3 t}{\csc t} = \cos t(\csc^2 t - 1).$$

P 2. Verify

$$\frac{1}{\tan x} + \frac{1}{\cot x} = \tan x + \cot x$$

P 3. Graph

$$f(x) = 3 \cdot 4^{3x+1} - 4.$$

Identify and label any asymptotes. label the x and y -intercepts, if any. Also include a table of “nice” values for which to evaluate f and the corresponding values of f .

P 4. Graph

$$g(x) = -2\log_5(14x - 2) + 3.$$

Identify and label any asymptotes. label the x and y -intercepts, if any. Also include a table of “nice” values for which to evaluate g and the corresponding values of g .