

Name _____ Period _____ Date _____

Ms. Schmidt

Pre-Calculus

Bi-Weekly Homework Quiz 13

This is a weekly homework quiz that will be given every week and is due back the following Monday.

This quiz is due back: **March 12th, 2018**

To receive full credit, all work must be shown. Any correct answer without work shown will receive only 1 point.

- 1) Solve the trigonometric equation to the nearest degree for all values within $0 \leq \theta \leq 2\pi$
$$2 \cos^2 \theta + \cos \theta - 3 = 0$$

- 2) Solve the equation:

$$27^{3-3v} = 81^{3v+2}$$

- 3) For the function, find any holes and the equations of all the asymptotes; vertical, horizontal and slant. Write DNE if one or more do not exist.

$$f(x) = \frac{x^2 + x - 2}{4x - 12}$$

- 4) Verify each identity.

$$\frac{\sin x \cot x}{\tan x} = \frac{\cos^2 x}{\sin x}$$

- 5) Solve to the nearest hundredth.

$$-3 \cdot 10^{-4x} - 9 = -75$$