

Name _____ Period _____ Date _____

Ms. Schmidt

Pre-Calculus

Bi-Weekly Homework Quiz 14

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

This quiz is due back: **March 27th, 2018**

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

1) Given the function $f(x) = 2x^2 - 3x + 4$, evaluate $\frac{f(x+h)-f(x)}{h}$.

2) State the possible rational zeros for each function. Then find all zeros.

$$f(x) = x^3 + 12x^2 + 17x - 6$$

3) Solve for a.

$$3.4 e^{2-2n} - 9 = -4$$

- 4) Two forces of 25 and 15 pounds act on a body so that the angle between them measures 78. Find the magnitude of the resultant force to the nearest pound.

- 5) Verify the trig identity:

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