AA Unit 6 Review

1) Given the following sequence:

n	1	2	3	4
t_n	4	-3	-10	-17

a) Write an explicit formula for it.

b) Convert the formula to function form.

2) Given the following sequence:

n	1	2	3	4
a_n	144	-72	36	-18

a) Write an explicit formula for it.

b) Rewrite the formula in function form.

3) Merric deposited $3,200 in an account that pays 4.6% interest per year, compounded continuously.

a) Write a function to model this situation.

b) When will the balance be $10,000? Round your answer to the nearest year.

4) Waldo deposited $550 in a savings account that pays 5.1% annual interest, compounded quarterly.

a) Write a function to model this situation.

b) When will the balance be 1,200? Round to the nearest year.

AA Unit 6 (F.LE.A) POE#2

When solving equations – answers should be given in the following way (moving on to the next form, when previous forms are not possible): 1) integers, 2) reduced improper or simple fractions, 3) decimals rounded to the nearest thousandth.

Solve each logarithmic equation.

5) $\log_6 78 = 3x$

6) $\ln 4x = 3$

Answer:_____

Answer:_____

Solve problem #7 by using a common base. Solve problem #8 using logarithms.

7) $81^{5x+4} = 27$

8) $8^{3x} = 19$

Answer:_____

Answer:_____

Exemplary.

9) Solve for x. Round your answer to three decimal places. Show your work!

$$\frac{620}{3-2^X} = 5$$

Answer:_____