

Name: _____ Date: _____

1) **Compound Interest Formulas:**

- a) Write the equation used to calculate interest compounded annually, quarterly, monthly, etc.
- b) Write the equation used to calculate interest compounded continuously.

2) Given the formula: $A = P\left(1 + \frac{r}{n}\right)^{nt}$ explain the meaning of each parameter.

- a) A
- b) P
- c) r
- d) n
- e) t

3) **Explain how to rewrite an exponential expression to logarithmic notation.**

- a) Rewrite $x^B = A$

4) **Explain how to rewrite a logarithmic expression to exponential notation.**

- a) $\log_B Q = a$

5) **Write the Properties of Logarithms:**

- a) Product Property
- b) Quotient Property
- c) Power Property

6) **Write the Change of Base Formula.**

7) **Define:**

- a) Common logarithm
- b) Natural logarithm

8) **Explain how to solve a logarithmic equation.**

9) **Explain how to find the time it takes for an investment to double.**

IXL Assignment 2 (2 quiz grades)

- Log in to your IXL account.
- Practice 12 out of the 20 the skills listed below (AT LEAST: 6 from Logarithms, and 6 Exponential and logarithmic functions). Your score for each skill will be computed as follows: 90 or greater A; 80 – 89 B; 70-79 C; 50-69 D; 0-49 F. Your total grade for the assignment will be the average of the 12 grades earned on each skill.
- The assignment is due February 3, 2019 @ 11:59 pm

IXL Algebra 2 Skills:**Logarithms**

- R.1** Convert between exponential and logarithmic form: rational bases
- R.2** Convert between natural exponential and logarithmic form
- R.3** Convert between exponential and logarithmic form: all bases
- R.4** Evaluate logarithms
- R.5** Evaluate natural logarithms
- R.6** Change of base formula
- R.7** Identify properties of logarithms
- R.8** Product property of logarithms
- R.9** Quotient property of logarithms
- R.10** Power property of logarithms
- R.11** Properties of logarithms: mixed review
- R.12** Evaluate logarithms: mixed review

Exponential and logarithmic functions

- S.1** Domain and range of exponential and logarithmic functions
- S.5** Solve exponential equations using common logarithms
- S.6** Solve exponential equations using natural logarithms
- S.7** Solve logarithmic equations I
- S.8** Solve logarithmic equations II
- S.12** Exponential growth and decay: word problems
- S.13** Compound interest: word problems
- S.14** Continuously compounded interest: word problems