Practice Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Exponentials and Logarithms Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Convert to either exponential or logarithmic form.

1. 2. 3.

Solve the equation. Round to nearest tenth when necessary.

4. 5. 6.

Find the inverse of the function.

7. 8.

9. 10.

Solve the word problems.

11. In 2031, there will be a population of 42,374 blue birds. In 2018, there are 31,239 blue birds chirping their way through the forest. What is the rate of growth for this population?

12. A house was purchased for $124,000 in 1994 then sold in 2007 for $212,500. Assuming a consistent interest rate throughout the years, what is the price of an appraisal in 2020 given that it is 2.3% of the current value?

13. You invest $5230 in a savings account which compounds quarterly. After 10 years, you have $7513. What is the interest rate?

14. How long will in take your investment of $3780 to triple in a savings account compounded monthly with an interest rate of 2.4%?