Lesson 7.4 Practice: Exponential Functions

School Launch · Algebra I · Unit 7: Exponents and Exponential Functions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Evaluate $f(x) = 5(3)^x$ for $x = 3$. EASY

2. Evaluate $f(x) = 7(2)^x$ for $x = 2$. EASY

3. Evaluate $f(x) = 2(\frac{1}{2})^x$ for $x = 0$. EASY

4. Evaluate $f(x) = 2(\frac{1}{3})^x$ for $x = 4$. MEDIUM

5. Evaluate $f(x) = 6(3)^x$ for $x = 3$. MEDIUM

6. Evaluate $f(x) = 6(\frac{1}{3})^x$ for $x = 1$. MEDIUM

7. Evaluate $f(x) = 2(4)^x$ for $x = 4$. MEDIUM

8. Evaluate $f(x) = 5(4)^x$ for $x = -1$. HARD

9. Evaluate $f(x) = 8(\frac{1}{3})^x$ for $x = -2$. HARD

10. Evaluate $f(x) = 3(4)^x$ for $x = 4$. HARD