

Algebra 2
Review for quiz-2014
Logarithms ch. 7

NAME _____
DATE _____
PERIOD _____

Without a calculator
Without a calculator

1. $\log 100$ **2**

2. $\ln e$ **1**

3. $\log 3$

4. $\log_3 \sqrt{27}$ **3/2**

5. $\log_9 \frac{1}{81}$ **-2**

6. $\log_3 \sqrt[3]{3}$ **1/3**

7. $\log_{25} 5$ **1/2**

8. $\log .1$ **-1**

9. $\ln e^2$ **2**

Change each of the following into an exponential expression and solve

1. $\log_3 27$
3

2. $\log_5 \sqrt{5}$
1/2

3. $\log 1000$
3

4. $\log_2 32$
5

5. $\log .1$
-1

6. $\log_8 2$
1/3

Solve for x- You may use a calculator

7. $3^x = 31$
3.125

8. $8^x = 120$
2.302

9. $5^x = 300$
3.543

10. $6^x = 4$
.773

11. $3^x = 33$
3.183

12. $2^{2-x} = 8^{4-x}$
5

13. $3 \ln 5x = 10$
5.61

14. $2 \ln x = 7$
33.115