Algebra II
Lesson #1 Unit 11
Class Worksheet #1
For Worksheet #1

This lesson will introduce and discuss logarithms.

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$$\log_B N = k \text{ if and only if } N = B^k.$$

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a logarithmic equation and an exponential equation

Understand that the 'answer' in the logarithmic equation is the exponent in the exponential equation.

The number B, in both equations, is called the base.

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Write the exponential equation that corresponds to each logarithmic equation.

1. $\log_3 9 = 2$

2. $\log_5 125 = 3$

3. $\log_9 3 = 0.5$

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Evaluate each of the following logarithms.

9. $\log_5 25 =$ ____

10. $\log_{10} 1000 =$ ____

11. $\log_2 0.125 =$ ____

12. $\log_{10} 0.01 =$ ____

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10. $\log_{10} 1000 =$ ____

11. $\log_2 0.125 =$ ____

12. $\log_{10} 0.01 =$ ____

$N = B^k \rightarrow \log_B N = k$

Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

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$25 =$

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Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

9. $\log_5 25 = \_\_\_\_$

$25 = 5^2$

10. $\log_{10} 1000 = \_\_\_\_$

11. $\log_2 0.125 = \_\_\_\_$

12. $\log_{10} 0.01 = \_\_\_\_$

$N = B^k \rightarrow \log_B N = k$

Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

9. $\log_5 25 = \underline{\quad 2 \quad}$

$25 = 5^2$

10. $\log_{10} 1000 = \underline{\quad\quad}$

11. $\log_2 0.125 = \underline{\quad\quad}$

12. $\log_{10} 0.01 = \underline{\quad\quad}$

$N = B^k \rightarrow \log_B N = k$

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1000

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Algebra II Class Worksheet #1 Unit 11

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10. $\log_{10} 1000 =$ ____

$1000 = 10^3$

11. $\log_2 0.125 =$ ____

12. $\log_{10} 0.01 =$ ____

$N = B^k \rightarrow \log_B N = k$

Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

9. $\log_5 25 =$ 2

$25 = 5^2$

10. $\log_{10} 1000 =$ 3

$1000 = 10^3$

11. $\log_2 0.125 =$ ____

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11. $\log_2 0.125 =$ ____

$0.125 = 1/8$

12. $\log_{10} 0.01 =$ ____

$N = B^k \rightarrow \log_B N = k$

Algebra II Class Worksheet #1 Unit 11

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12. $\log_{10} 0.01 =$ **-2**

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$0.01 = 10^{-2}$

Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

13. $\log_2 1/32 =$ ____

14. $\log_9 3 =$ ____

15. $\log_{25} 125 =$ ____

16. $\log_3 243 =$ ____

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Algebra II Class Worksheet #1 Unit 11

Evaluate each of the following logarithms.

13. $\text{Log}_2\ 1/32 =$ ____

$1/32 = 1/2^5$

14. $\text{Log}_9\ 3 =$ ____

15. $\text{Log}_{25}\ 125 =$ ____

16. $\text{Log}_3\ 243 =$ ____

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$1/32$

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13. $\log_2 1/32 =$ ____

$1/32 = 1/2^5$

$1/32 = 2^{-5}$

14. $\log_9 3 =$ ____

15. $\log_{25} 125 =$ ____

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3

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14. $\log_9 3 =$ ____

$3 = \sqrt{9}$

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15. $\log_{25} 125 =$ ____

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125

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