

**2.13****Exponential & Logarithmic  
Equations and Inequalities  
Practice Set 1**

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

**Problems 1 – 6, Solve for  $x$  and find the exact solution algebraically.**

1.  $3^x = 81$

2.  $5^x = \frac{1}{625}$

3.  $\left(\frac{1}{2}\right)^x = 64$

4.  $5(10^x) = 175$

5.  $32\left(\frac{1}{4}\right)^{x/2} = 2$

6.  $\left(\frac{2}{3}\right)^x = \frac{32}{243}$

**Problems 7 – 12, Solve the logarithmic equation algebraically. Be sure to check for extraneous solutions.**

7.  $\log_x 625 = 4$

8.  $5 \ln(2x) = 20$

9.  $\ln x + \ln(x - 4) = \ln 5$

10.  $\log_2 9 + 2 = 2 \log_2(x - 1)$

# Exponential And Logarithmic Equations And Inequalities

## Practice B Tesccc

**M Mosston**



## **Exponential And Logarithmic Equations And Inequalities Practice B Tesccc:**

## **Exponential And Logarithmic Equations And Inequalities Practice B Tesccc** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Exponential And Logarithmic Equations And Inequalities Practice B Tesccc**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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