

## Solving Exponential and Log Equations

Solve each equation below for x. Round to 2 decimal places and show work

$$1. \quad 2^{8x-16} - 49 = 67$$

$$2. \quad 4^{3x+21} - 83 = 2$$

$$3. \quad 7^{5x-65} + 33 = 120$$

$$4. \quad 9^{2x-38} - 47 = 123$$

$$5. \quad 8^{3x+39} + 46 = 132$$

$$6. \quad 2^{-x-14} - 37 = -13$$

$$7. \quad e^{4x+9} - 12 = 19$$

$$8. \quad e^{x-15} + 56 = 88$$

$$9. \quad 2e^{3x-11} - 21 = 37$$

$$10. \quad 3e^{6x-54} - 34 = 83$$

# 15 Using Logs To Solve Exponential Equations

## Worksheet

**Brendan G. Carr**

## 15 Using Logs To Solve Exponential Equations Worksheet:

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emphasis on the software used by economists

**Exponential and Logarithmic Functions** Kenneth F. Klopfenstein,2004

**Exercises of Logarithms and Exponentials** Simone Malacrida,2022-12-18 In this book exercises are carried out regarding the following mathematical topics logarithmic functions and properties exponential functions and properties logarithmic and exponential equations and inequalities Initial theoretical hints are also presented to make the performance of the exercises understood

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