

Chapter 9

LOGORATHMS

Exercise 9.1

Q.1 Convert the following to logarithmic form:

(i)  $5^2 = 25$

(ii)  $a^2 = 64$

(iii)  $7^x = 100$

(iv)  $\log_3 \frac{1}{3} = -1$

(v)  $9^0 = 1$

(vi)  $3^{-2} = \frac{1}{9}$

(vii)  $\log_5 34 = \frac{5}{2}$

(viii)  $\log_2 (0.001) = -3$

Ans.

(i)  $5^2 = 25 \Rightarrow \log_5 25 = 2$

(ii)  $a^2 = 64 \Rightarrow \log_a 64 = 2$

(iii)  $7^x = 100 \Rightarrow \log_7 100 = x$

(iv)  $9^0 = 1 \Rightarrow \log_9 1 = 0$

(v)  $6^1 = 6 \Rightarrow \log_6 6 = 1$

(vi)  $3^{-2} = \frac{1}{9} \Rightarrow \log_3 \frac{1}{9} = -2$

(vii)  $10^{-2} = 0.01 \Rightarrow \log_{10} 0.01 = -2$

(viii)  $(81)^{\frac{1}{4}} = 27 \Rightarrow \log_{81} 27 = \frac{1}{4}$

Q.2 Convert the following into exponential form:

(i)  $\log_2 32 = 5$

(ii)  $\log_3 81 = 4$

(iii)  $\log_3 \frac{1}{3} = -1$

(iv)  $\log_3 4 = \frac{2}{3}$

(v)  $\log_2 32 = \frac{5}{3}$

(vi)  $\log_{10} (0.001) = -3$

(vii)  $\log_2 0.25 = -2$

(viii)  $\log_a \left( \frac{1}{a} \right) = -1$

Ans. (i)  $\log_2 32 = 5 \Rightarrow 2^5 = 32$

# Ncert Solutions Math 9th Logarithms

**Richa Aggarwal**



**Ncert Solutions Math 9th Logarithms:**

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### **Table of Contents Ncert Solutions Math 9th Logarithms**

1. Understanding the eBook Ncert Solutions Math 9th Logarithms
  - The Rise of Digital Reading Ncert Solutions Math 9th Logarithms
  - Advantages of eBooks Over Traditional Books
2. Identifying Ncert Solutions Math 9th Logarithms
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ncert Solutions Math 9th Logarithms
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert Solutions Math 9th Logarithms
  - Personalized Recommendations
  - Ncert Solutions Math 9th Logarithms User Reviews and Ratings

- Ncert Solutions Math 9th Logarithms and Bestseller Lists
- 5. Accessing Ncert Solutions Math 9th Logarithms Free and Paid eBooks
  - Ncert Solutions Math 9th Logarithms Public Domain eBooks
  - Ncert Solutions Math 9th Logarithms eBook Subscription Services
  - Ncert Solutions Math 9th Logarithms Budget-Friendly Options
- 6. Navigating Ncert Solutions Math 9th Logarithms eBook Formats
  - ePub, PDF, MOBI, and More
  - Ncert Solutions Math 9th Logarithms Compatibility with Devices
  - Ncert Solutions Math 9th Logarithms Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ncert Solutions Math 9th Logarithms
  - Highlighting and Note-Taking Ncert Solutions Math 9th Logarithms
  - Interactive Elements Ncert Solutions Math 9th Logarithms
- 8. Staying Engaged with Ncert Solutions Math 9th Logarithms
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ncert Solutions Math 9th Logarithms
- 9. Balancing eBooks and Physical Books Ncert Solutions Math 9th Logarithms
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ncert Solutions Math 9th Logarithms
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ncert Solutions Math 9th Logarithms
  - Setting Reading Goals Ncert Solutions Math 9th Logarithms
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ncert Solutions Math 9th Logarithms
  - Fact-Checking eBook Content of Ncert Solutions Math 9th Logarithms
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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