

PRECALCULUS

Unit 1: Fundamentals

Lesson 6: Modeling with Equations

Lesson 6: Modeling

Topic 6.1: Word problems

Guidelines

1. Identify the variables

2. Express unknown quantities in terms of the variables

3. Write an equation

4. Solve the equation and check the solution

Ex. 1. You invested a sum of money in a bank that offers a 5% annual interest rate. After 3 years, you have \$1,150. How much did you invest initially?

Ex. 2. John invests \$10,000 and the interest rate is 5% per year. How much money does he have after 3 years?

Ex. 3. John wants to build a rectangular pool. The pool has a total area of 2,000 square feet. The length is 40 feet more than the width. What are the dimensions of the pool?

Ex. 4. The area of a right triangle is 120 square feet. The length of the hypotenuse is 25 feet. What are the lengths of the legs of the triangle?



Ex. 5. John is 10 years old. He is 5 years older than his sister. How old is his sister?

Ex. 6. A rectangular garden is 20 feet wide. The area of the garden is 1,000 square feet. What is the length of the garden?

Unit 1
Lesson 6

Guided notes & Problem Set

Precalculus Unit 6 Lesson 1

LL Leslie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Precalculus Unit 6 Lesson 1

1. Understanding the eBook Precalculus Unit 6 Lesson 1
 - The Rise of Digital Reading Precalculus Unit 6 Lesson 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Precalculus Unit 6 Lesson 1
 - 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 Precalculus Unit 6 Lesson 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Precalculus Unit 6 Lesson 1
 - Personalized Recommendations
 - Precalculus Unit 6 Lesson 1 User Reviews and Ratings
 - Precalculus Unit 6 Lesson 1 and Bestseller Lists
5. Accessing Precalculus Unit 6 Lesson 1 Free and Paid eBooks
 - Precalculus Unit 6 Lesson 1 Public Domain eBooks
 - Precalculus Unit 6 Lesson 1 eBook Subscription Services
 - Precalculus Unit 6 Lesson 1 Budget-Friendly Options

6. Navigating Precalculus Unit 6 Lesson 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Precalculus Unit 6 Lesson 1 Compatibility with Devices
 - Precalculus Unit 6 Lesson 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Precalculus Unit 6 Lesson 1
 - Highlighting and Note-Taking Precalculus Unit 6 Lesson 1
 - Interactive Elements Precalculus Unit 6 Lesson 1
8. Staying Engaged with Precalculus Unit 6 Lesson 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Precalculus Unit 6 Lesson 1
9. Balancing eBooks and Physical Books Precalculus Unit 6 Lesson 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Precalculus Unit 6 Lesson 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Precalculus Unit 6 Lesson 1
 - Setting Reading Goals Precalculus Unit 6 Lesson 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Precalculus Unit 6 Lesson 1
 - Fact-Checking eBook Content of Precalculus Unit 6 Lesson 1
 - 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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