

Dependent Equations: Plug and Solve **NOT**

Read about each situation. Decide whether each problem requires you to **substitute** or **plug and solve**. Write the strategy below. Show the steps that lead to your answer.

1. Paper

A piece of paper is rectangular in shape. It is 10 cm taller than it is wide. The piece is 100 cm² in area. If you fold it in half lengthwise, it would be 100 cm in length, and 10 cm wide. The equation to model this situation is $P(x) = 100(10 - x)$.

$$P(x) = 100(10 - x)$$

- a. Determine the dimensions of the paper after it folds.

$$100 = 100(10 - x)$$

- b. How long and wide is the paper in standard office paper? (10 inch tall, 17 inch in length)

$$\begin{aligned} 100 &= 100(10 - x) \\ 100 &= 1000 - 100x \\ 100x &= 900 \\ x &= 9 \end{aligned}$$

2. Game System

When a new game system first comes out, it costs \$200. Over the next couple of years, however, the price falls to around \$100. Suppose you find that the price is \$100 after 2 years, and the equation

$$G(x) = 200(1 - x)^2$$

- a. How many months it takes before the price of the game system fell to \$100?

$$\begin{aligned} 100 &= 200(1 - x)^2 \\ 100 &= 200(1 - 2x + x^2) \\ 100 &= 200 - 400x + 200x^2 \end{aligned}$$

$$0 = 200x^2 - 400x + 100$$

- b. What was the cost of the game system after 2 years?

$$G(2) = 200(1 - 2)^2$$

3. Investment

Five friends _____ spend the money

the balance of an investment after 2 years.

- a. How much was invested initially?

$$100 = 100(1 - x)$$

- b. How much would be in the account after 2 years, and 4 months?

$$100(1 - x) = 100(1 - 0.25)$$

- c. How long would it take for the investment to reach a value of \$100,000?

4. Population

Scientists report that there is a 1% decline in the number of birds in the population each year. The population in 2000 was 100,000.

$$P(x) = 100,000(1 - 0.01)^x$$

where:

- a. How many birds did the scientists count in 2000?

$$100,000(1 - 0.01)$$

- b. How long did it take for the population to reach 100,000?

$$100,000 = 100,000(1 - 0.01)^x$$

- c. How long will the population after 20

Exponential Equations Plug And Solve Key

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Table of Contents Exponential Equations Plug And Solve Key

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

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