

Detailed Explanation Examples And 50 Solved Problems

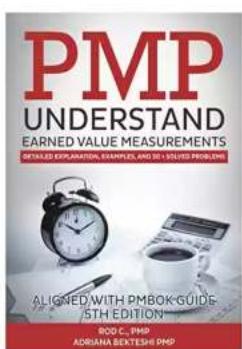
Are you eager to enhance your problem-solving skills? Looking for detailed explanations and examples to sharpen your understanding? In this article, we will provide you with a comprehensive guide that includes 50 solved problems across various domains.

Why Problem-Solving Skills Matter?

Problem-solving skills are crucial for success in both personal and professional life. Effective problem solvers possess the ability to analyze complex situations, think critically, and develop innovative solutions. These skills not only enhance one's decision-making abilities but also promote personal growth and development.

Importance of Detailed Explanation Examples

While learning problem-solving techniques, having access to detailed explanation examples can significantly strengthen one's grasp of concepts. By studying solved problems, learners can gain insights into the step-by-step approach used to unravel complex scenarios.



PMP Understand Earned Value Measurements: Detailed Explanation, Examples, and 50+ solved problems by SuperSummary([Print Replica] Kindle Edition)

5 out of 5

Language : English

File size : 2796 KB

Screen Reader : Supported

Print length : 94 pages

Lending : Enabled



1. Mathematics

Mathematics is a fundamental discipline that requires strong problem-solving skills. Let's explore a few solved problems that will help you master various mathematical concepts.

Problem 1: Solving Linear Equations

Given the equation $3x + 5 = 11$, find the value of x .

Solving Equations Examples

www.cazoommaths.com

Solve the following equations

Balancing method

$$\begin{aligned} 8a - 5 &= 11 \\ +5 &\quad +5 \\ 8a &= 16 \\ \div 8 &\quad \div 8 \\ a &= 2 \end{aligned}$$

Function machine method

$$\begin{aligned} 8a - 5 &= 11 \\ a \rightarrow \times 8 \rightarrow -5 \rightarrow 11 \\ 2 \leftarrow \div 8 \leftarrow +5 \leftarrow 11 \\ a &= 2 \end{aligned}$$

Balancing method

$$\begin{aligned} 10 + 6y &= 34 \\ -10 &\quad -10 \\ 6y &= 24 \\ \div 6 &\quad \div 6 \\ y &= 4 \end{aligned}$$

Function machine method

$$\begin{aligned} 10 + 6y &= 34 \\ y \rightarrow \times 6 \rightarrow +10 \rightarrow 34 \\ 4 \leftarrow \div 6 \leftarrow -10 \leftarrow 34 \\ y &= 4 \end{aligned}$$

Balancing method

$$\begin{aligned} \frac{x}{12} - 5 &= 4 \\ +5 &\quad +5 \\ \times 12 &\quad \frac{x}{12} = 9 \times 12 \\ x &= 108 \end{aligned}$$

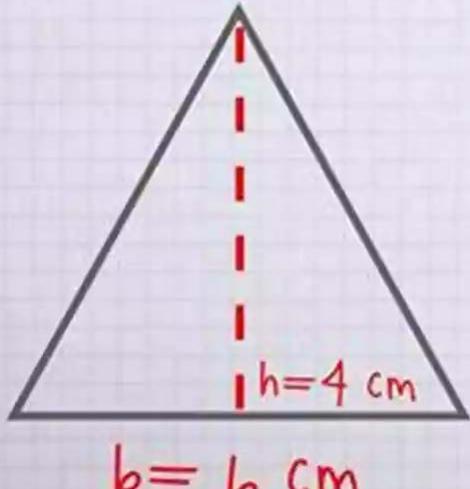
Function machine method

$$\begin{aligned} \frac{x}{12} - 5 &= 4 \\ x \rightarrow \div 12 \rightarrow -5 \rightarrow 4 \\ 108 \leftarrow \times 12 \leftarrow +5 \leftarrow 4 \\ x &= 108 \end{aligned}$$

Problem 2: Calculating Areas of Geometric Figures

Find the area of a triangle with base length of 6 units and height of 4 units.

Area of a triangle



$$\begin{aligned} A &= \frac{1}{2} bh \\ &= \frac{1}{2} (b \text{ cm}) (4 \text{ cm}) \\ &= 12 \text{ cm}^2 \end{aligned}$$

2. Physics

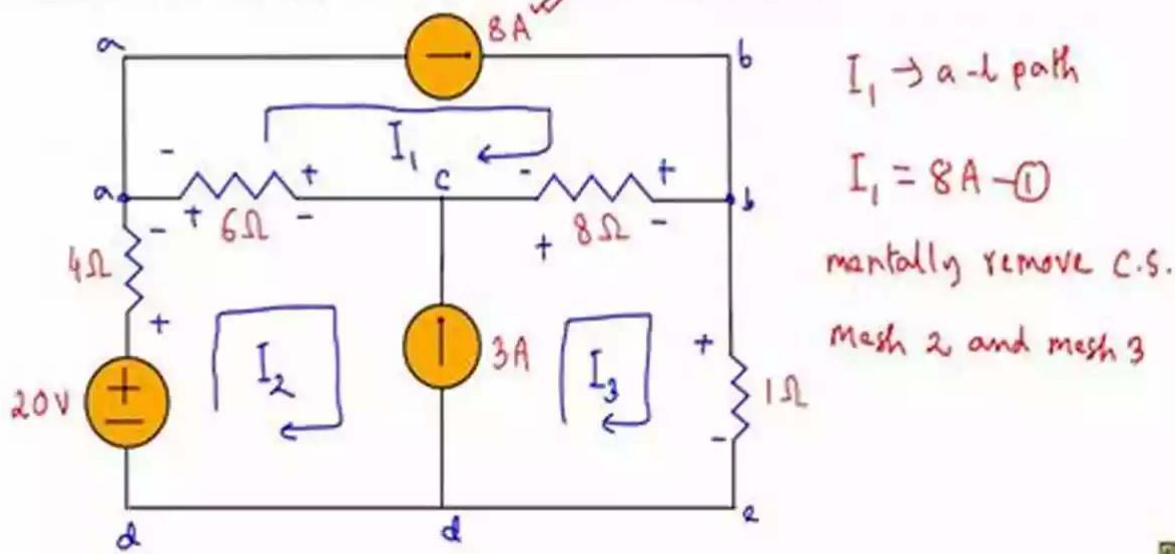
Physics deals with the understanding of the natural world and solving real-life problems. Let's dive into a couple of examples that illustrate principles from this fascinating subject.

Problem 1: Calculating Velocity

A car travels a distance of 100 kilometers in 2 hours. What is its average velocity?

Supermesh Analysis : Example 2

Using mesh analysis, find the current through 8Ω resistor in the following circuit

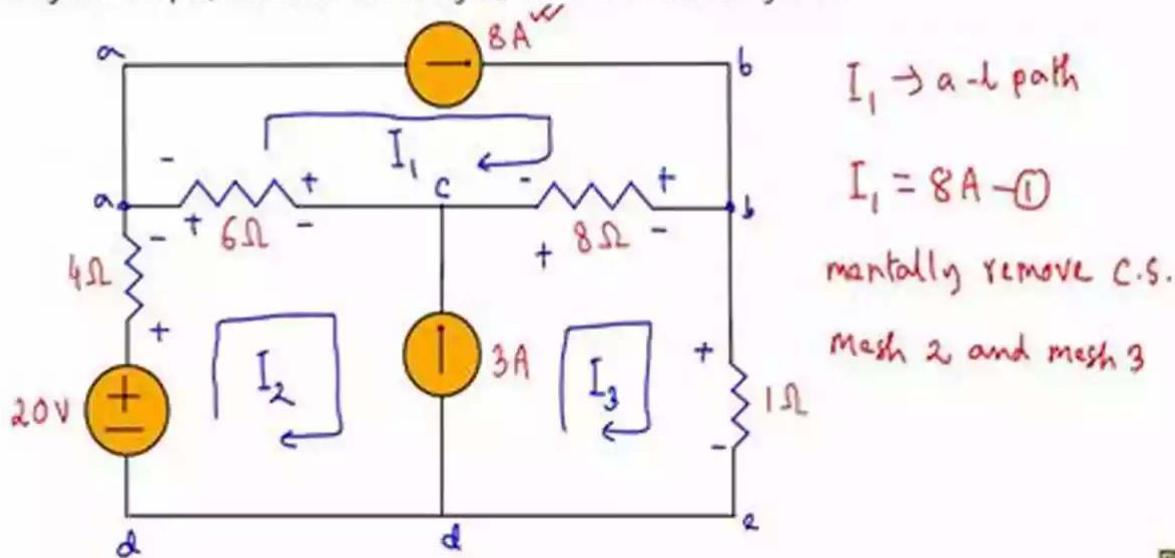


Problem 2: Determining Force

An object with a mass of 5 kg accelerates at a rate of 2 m/s^2 . Calculate the force exerted by the object.

Supermesh Analysis : Example 2

Using mesh analysis, find the current through 8Ω resistor in the following circuit



3. Computer Science

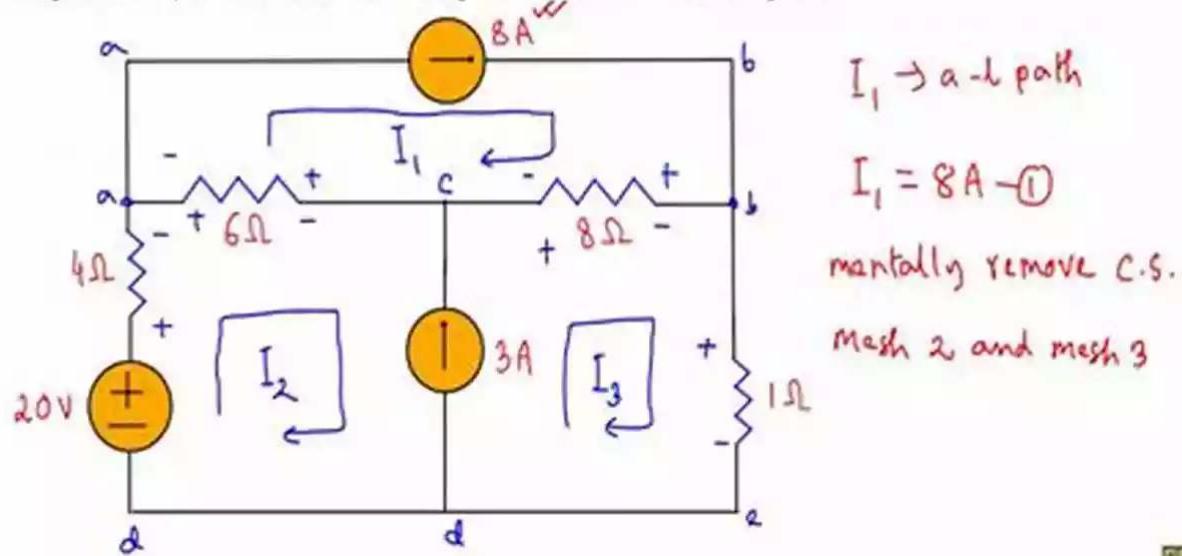
Problem-solving is at the core of computer science. Explore the following examples to strengthen your skills in this ever-evolving field.

Problem 1: Sorting Algorithms

Implement the quicksort algorithm to sort an array of integers.

Supermesh Analysis : Example 2

Using mesh analysis, find the current through 8Ω resistor in the following circuit

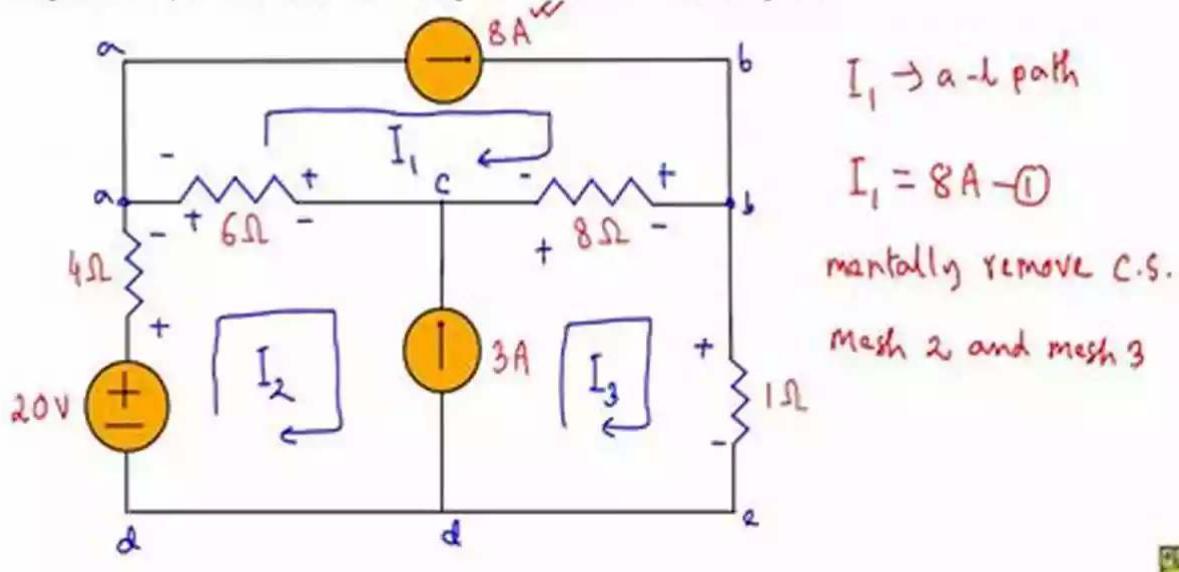


Problem 2: Recursive Functions

Write a recursive function to calculate the factorial of a given number.

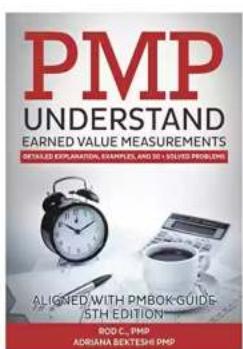
Supermesh Analysis : Example 2

Using mesh analysis, find the current through 8Ω resistor in the following circuit



Problem-solving skills are vital for success across various domains. By studying detailed explanation examples and solving a variety of problems, you can improve your analytical thinking and enhance your ability to overcome challenges. The 50 solved problems presented in this article offer valuable insights and practical applications to sharpen your problem-solving skills. So, dive in, practice, and embrace the rewarding journey of problem-solving!

PMP Understand Earned Value Measurements: Detailed Explanation, Examples, and 50+ solved problems by SuperSummary([Print Replica] Kindle Edition)



★★★★★ 5 out of 5

Language : English

File size : 2796 KB

Screen Reader : Supported

Print length : 94 pages

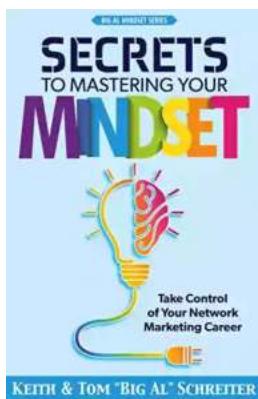
Lending : Enabled

FREE

DOWNLOAD E-BOOK

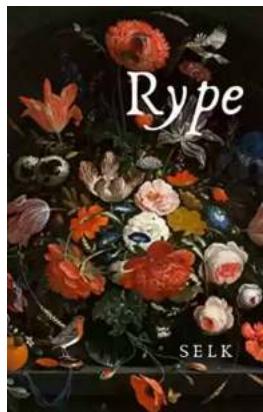


In this book we are explaining the concept of Earned Value and how the other basic concepts are related to each other. We paid attention to trigger out the specifics of using each formula. Each Chapter is associated with good examples which contribute on better understanding of the notions. On the second part of the book are presented questions and exercises regarding Earn Value. Questions are closely modeled on real time exam questions so spend time to study them carefully and you will be able to answer that kind of problems the PMP certificate Exam with ease.



Take Control Of Your Network Marketing Career

Are you tired of working long hours to build someone else's dream? Do you dream of escaping the monotonous 9-to-5 job and achieving financial freedom? ...

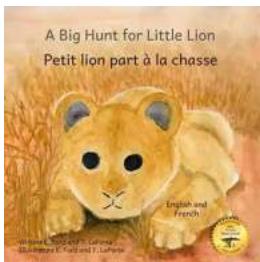


The Enigmatic Talent of Rype Jen Selk: A Musical Journey Like No Other

When it comes to musical prodigies, there are few that can match the enigmatic talent of Rype Jen Selk. With a musical journey that spans across genres and ignites a...

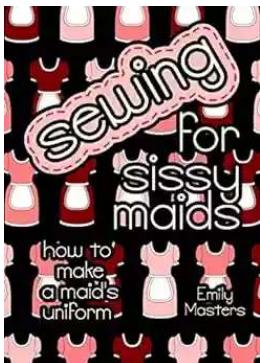
Unveiling the Rich History and Poetry of Shiraz in Iranian Studies 10

When it comes to the cultural heritage of Iran, few cities can rival the richness and significance of Shiraz. Known as the City of Love and Poetry, Shiraz has...



How Impatience Can Be Painful In French And English

: In today's fast-paced world, impatience has become an ever-present aspect of our lives. We are constantly seeking instant gratification, wanting things to happen quickly...



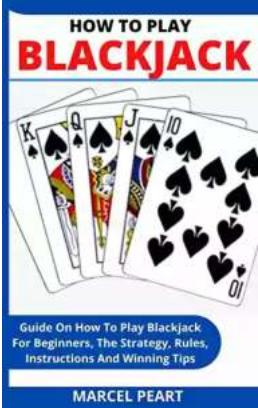
Sewing For Sissy Maids - Unleashing Your Creative Side

Are you ready to dive into the enchanting world of sewing for sissy maids? Whether you want to create your own beautiful sissy maid outfits or indulge in...



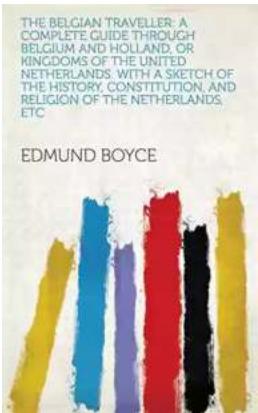
GST Compensation to States: Ensuring Fiscal Stability during the Pandemic

In the wake of the COVID-19 pandemic, governments around the world have been grappling with the economic fallout, trying to find ways to stabilize their economies and...



Learn How to Play Blackjack: A Comprehensive Guide for Beginners

Blackjack, also known as twenty-one, is one of the most popular card games in both brick-and-mortar and online casinos. This thrilling game of skill and luck has been...



Complete Guide Through Belgium And Holland Or Kingdoms Of The United

Welcome, travel enthusiasts, to a complete guide through Belgium and Holland - the enchanting Kingdoms of the United! This picturesque region offers a delightful...