

Graph Theory Solutions to Midterm 2

You must show all your work. The number of points earned on each problem will depend upon how well you have justified your solution. Choose nine of the following problems and complete them. Write the number of the chosen problems in the table above and return the cover sheet with your test.

1. Prove that $r(3, n) \leq \frac{n(n+1)}{2}$ for all $n \in \mathbb{Z}^+$.
-

We use induction on n .

Assume the statement holds for all integer values less than n .

Using the table on page 8-4, we see that the statement holds for $n = 1, \dots, 9$.

Using Theorem 4.3.2, we have

$$n + r(3, n-1) \leq n + \frac{(n-1)(n-2)}{2} = \frac{2n + n^2 - 3n + 2}{2} =$$

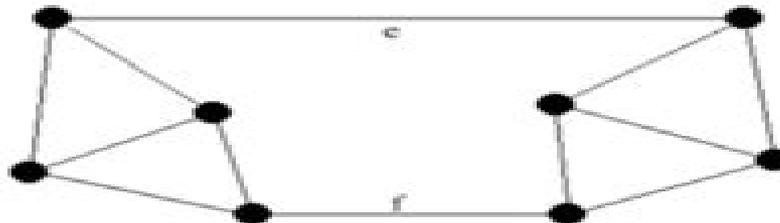
$$\frac{n^2 - n + 2}{2} = \frac{(n-2)(n+1)}{2}$$

$$r(3, n) \leq r(2, n) + r(3, n-1) = n + r(3, n-1) \leq n + \frac{(n-1)n}{2} =$$

$$\frac{n(n+1)}{2}$$

by the inductive hypothesis.

2. Find the number of spanning trees in the graph below.



Graph Theory Problems And Solutions

G Psacharopoulos



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Table of Contents Graph Theory Problems And Solutions

1. Understanding the eBook Graph Theory Problems And Solutions
 - The Rise of Digital Reading Graph Theory Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Graph Theory Problems And Solutions
 - 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 Graph Theory Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Graph Theory Problems And Solutions
 - Personalized Recommendations

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

- 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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