

DISCRETE MATHEMATICS

1. This question carries 30% of the marks.

a) For each of the following statements, state whether it is true or false and provide a supporting proof.

i) $n^2 + n = o(n^2)$. [3]

Answer:

False. LHS/RHS gives $(n^2 + n)/n^2 \rightarrow 1$ as $n \rightarrow \infty$ (it should tend to infinity for the statement to be true).

ii) $(n^2 + 1)/(n^2 - 1) = O(n)$. [3]

Answer:

True. The LHS tends to 1 for large n , so it's less than n .

iii) If $f(n) = o(n)$ then $1/f(n) = o(1/n)$. [3]

Answer:

True. If $f(n) = o(n)$ then $f(n)/n \rightarrow 0$ which means $(1/f(n))/(1/n) = n/f(n) \rightarrow 0$.

b) Give a tight bound for each of the following recurrence relations, or explain why it is not possible to do so.

i) $T(n) = 27T(n/3) + n^3$. [2]

Answer:

$a = 27, b = 3, d = 3$ so $\log_b a = \log_3 27 = 3 = d$ so $T(n) = O(n^d \log n) = O(n^3 \log n)$.

ii) $T(n) = 26T(n/3) + n^3$. [2]

Answer:

$a = 26, b = 3, d = 3$ so $\log_b a = \log_3 26 < \log_3 27 = 3 = d$ so $T(n) = O(n^d) = O(n^3)$.

iii) $T(n) = 2T(n/16) + 4$. [2]

Answer:

$a = 2, b = 16, d = 0$ so $\log_b a = \log_{16} 2 = 1/4 > d$ so $T(n) = O(n^{1/4})$.

Master Theorem. If $T(n)$ satisfies

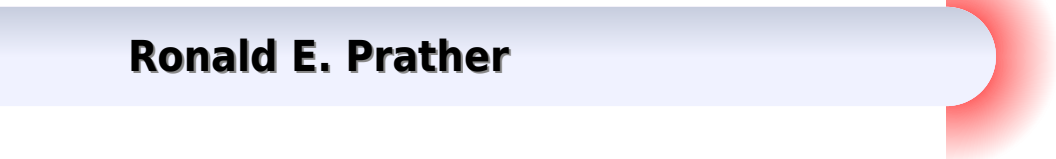
$$T(n) = aT(n/b) + O(n^d)$$

for some $a > 0$, $b > 1$ and $d \geq 0$, then

$$T(n) = \begin{cases} O(n^d) & \text{if } d > \log_b a \\ O(n^d \log n) & \text{if } d = \log_b a \\ O(n^{\log_b a}) & \text{if } d < \log_b a \end{cases}$$

Discrete Mathematics Solutions Pdf

Ronald E. Prather



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Student Solution Manual for Discrete Mathematics John A. Dossey, Albert D. Otto, Charles Vanden Eynden, Lawrence E. Spence, 2006-01 **Solutions Manual to Accompany Elements of Discrete Mathematics, 2nd Ed** Chung Laung

Liu, Hon Wai Leong, 1990 *Solutions Manual to Accompany Elements of Discrete Mathematics* Chung Laung Liu, 1977

Logic and Discrete Mathematics Willem Conradie, Valentin Goranko, 2015-04-28 A concise yet rigorous introduction to logic and discrete mathematics This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics presenting material that has been tested and refined by the authors in university courses taught over more than a decade The chapters on logic propositional and first order provide a robust toolkit for logical reasoning emphasizing the conceptual understanding of the language and the semantics of classical logic as well as practical applications through the easy to understand and use deductive systems of Semantic Tableaux and Resolution The chapters on set theory number theory combinatorics and graph theory combine the necessary minimum of theory with numerous examples and selected applications Written in a clear and reader friendly style each section ends with an extensive set of exercises most of them provided with complete solutions which are available in the accompanying solutions manual Key Features Suitable for a variety of courses for students in both Mathematics and Computer Science Extensive in depth coverage of classical logic combined with a solid exposition of a selection of the most important fields of discrete mathematics Concise clear and uncluttered presentation with numerous examples Covers some applications including cryptographic systems discrete probability and network algorithms Logic and Discrete Mathematics A Concise Introduction is aimed mainly at undergraduate courses for students in mathematics and computer science but the book will also be a valuable resource for graduate modules and for self study Discrete Mathematics with Proof Eric Gossett, 2003

Logic and Discrete Mathematics Willem Conradie, Valentin Goranko, Claudette Robinson, 2015-06-15 Solutions manual to accompany Logic and Discrete Mathematics A Concise Introduction This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics presenting material that has been tested and refined by the authors in university courses taught over more than a decade Written in a clear and reader friendly style each section ends with an extensive set of exercises most of them provided with complete solutions which are available in this accompanying solutions manual Student Solutions Manual and Study Guide, Discrete Mathematics with Applications Susanna S. Epp, 2011-04 A solutions manual designed to accompany the fourth edition of the text Discrete mathematics with applications by Susanna S Epp It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself Additional review material is also provided Discrete Mathematics: Mathematical Reasoning and Proof with Puzzles, Patterns, and Games, 1e Student Solutions Manual Douglas E. Ensley, J. Winston Crawley, 2009-01-20 Did you know that games and puzzles have given birth to many of today s deepest

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Student's Solutions Manual for Discrete Mathematics with Applications Thomas Koshy, 2004 Student Solutions Manual to Accompany Discrete Mathematics John A. Dossey, 1987 **Discrete Mathematics for Computing. Solutions Manual** John Eric Mackay Munro, 1992 **Discrete Mathematics: Mathematical Reasoning and Proof with Puzzles, Patterns, and Games, 1e with Student Solutions Manual Set** Douglas E. Ensley, J. Winston Crawley, 2006-05

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