Set Theory Exercises

1. Sets X, Y and Z are represented as: X = {a, b, c, d}, Y = {d, e, f, b} and Z = {a, e, f, g, j}.
    The universal set is U = {a, b, c, d, e, f, g, h, i, j}
    Required

    i)   Present this information on a Venn diagram.
    ii)   Find members of the following sets
          - Z'
          - Z - X
          - (Y ∪ Z)'
          - X △ Z
          - (X ∩ Y)'
          - (X ∪ Y) ∩ Z
          - Y ∩ (X ∩ Y)

2. Let X be a superset of Y. Let Z be a set. Using an example of your own, state whether the following are correct or incorrect. If incorrect, correct by changing the right hand side of the equation.
    (i)   X ∩ Y = Y
    (ii)   X ∪ Y = ∅
    (iii) X ∩ Z ⊂ Y ∪ Z

3. Denoting the set of students who are pursuing a Bcom degree by **B** and those taking CPA by **C**.
    Required
    For each of the following groups of students, write down the set that describes it and represent the same using a Venn diagram:
    (i)   students taking Bcom degree but not CPA.
    (ii)   students taking Bcom degree and CPA.
    (iii) students studying either Bcom degree or CPA
    (iv)   students who study neither for a Bcom degree nor CPA
    (v)   students who don't study for a Bcom degree and who don't take CPA

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Fernandez Luis,H. Gooransarab

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   Set Theory Kenneth Kunen,2011 This book is designed for readers who know elementary mathematical logic and axiomatic set theory and who want to learn more about set theory The primary focus of the book is on the independence proofs Most famous among these is the independence of the Continuum Hypothesis CH that is there are models of the axioms of set theory ZFC in which CH is true and other models in which CH is false More generally cardinal exponentiation on the regular cardinals can consistently be anything not contradicting the classical theorems of Cantor and K nig The basic methods for the independence proofs are the notion of constructibility introduced by G del and the method of forcing introduced by Cohen This book describes these methods in detail verifi es the basic independence results for cardinal exponentiation and also applies these methods to prove the independence of various mathematical questions in measure theory and general topology Before the chapters on forcing there is a fairly long chapter on infi nitary combinatorics This consists of just mathematical theorems not independence results but it stresses the areas of mathematics where set theoretic topics such as cardinal arithmetic are relevant There is in fact an interplay between infi nitary combinatorics and independence proofs Infi nitary combinatorics suggests many set theoretic questions that turn out to be independent of ZFC but it also provides the basic tools used in forcing arguments In particular Martin s Axiom which is one of the topics under infi nitary combinatorics introduces many of the basic ingredients of forcing   **Set Theory for Pre-Beginners - Solution Guide** Steve Warner,2019-12-28 Set Theory for Pre Beginners Solution GuideThis book contains complete solutions to the problems in the 8 Problem Sets in Set Theory for Pre Beginners Note that this book references examples and exercises from Set Theory for Pre Beginners Therefore it is strongly suggested that you purchase a copy of that book before purchasing this one   Classic Set Theory D.C. Goldrei,2017-09-06 Designed for undergraduate students of set theory Classic Set Theory presents a modern perspective of the classic work of Georg Cantor and Richard Dedekin and their immediate successors This includes The definition of the real numbers in terms of rational numbers and ultimately in terms of natural numbersDefining natural numbers in terms of setsThe potential paradoxes in set theoryThe Zermelo Fraenkel axioms for set theoryThe axiom of choiceThe arithmetic of ordered setsCantor s two sorts of transfinite number cardinals and ordinals and the arithmetic of these The book is designed for students studying on their own without access to lecturers and other reading along the lines of the internationally renowned courses produced by the Open University There are thus a large number of exercises within the main body of the text designed to help students engage with the subject many of which have full teaching solutions In addition there are a number of exercises without answers so students studying under the guidance of a tutor may be assessed Classic Set Theory gives students sufficient grounding in a rigorous approach to the revolutionary results of set theory as well as pleasure in being able to tackle significant problems that arise from the theory   **Set Theory for Beginners - Solution Guide** Steve Warner,2019-11-09 Set Theory for Beginners Solution GuideThis book contains complete

solutions to the problems in the 16 Problem Sets in Set Theory for Beginners Note that this book references examples and theorems from Set Theory for Beginners Therefore it is strongly suggested that you purchase a copy of that book before purchasing this one   **Essential Concepts of Set Theory** Robert S. Y. Wong,Manwai Yeung,2016-07-01 For thousands of years it is generally believed that mathematics begins with the natural numbers and counting But there is something more fundamental than counting It is the grouping of things If a child is shown a picture of a farm with sheep and cows here and there and asked to count the number of sheep the child would first put the sheep in a group mentally and then count the number of sheep in the group Without grouping counting cannot happen Therefore mathematics begins with the grouping of objects which is the object of study of set theory In this book we explore the fundamental concepts of sets and related topics propositional logic methods of proof relations and functions Unlike the technical approach adopted in most books we use many everyday examples to show that these concepts can be found everywhere in our daily life The book also has plenty of exercises and solutions to all exercises are provided   **Exercises in Set Theory** L.E. Sigler,1966   **Set Theory An Introduction To Independence Proofs** K. Kunen,2014-06-28 Studies in Logic and the Foundations of Mathematics Volume 102 Set Theory An Introduction to Independence Proofs offers an introduction to relative consistency proofs in axiomatic set theory including combinatorics sets trees and forcing The book first tackles the foundations of set theory and infinitary combinatorics Discussions focus on the Suslin problem Martin s axiom almost disjoint and quasi disjoint sets trees extensionality and comprehension relations functions and well ordering ordinals cardinals and real numbers The manuscript then ponders on well founded sets and easy consistency proofs including relativization absoluteness reflection theorems properties of well founded sets and induction and recursion on well founded relations The publication examines constructible sets forcing and iterated forcing Topics include Easton forcing general iterated forcing Cohen model forcing with partial functions of larger cardinality forcing with finite partial functions and general extensions The manuscript is a dependable source of information for mathematicians and researchers interested in set theory   Exercises in Set Theory Laurence E. Sigler,1976   **Notes on Set Theory** Yiannis Moschovakis,2005-12-21 The axiomatic theory of sets is a vibrant part of pure mathematics with its own basic notions fundamental results and deep open problems It is also viewed as a foundation of mathematics so that to make a notion precise simply means to define it in set theory This book gives a solid introduction to pure set theory through transfinite recursion and the construction of the cumulative hierarchy of sets and also attempts to explain how mathematical objects can be faithfully modeled within the universe of sets In this new edition the author has added solutions to the exercises and rearranged and reworked the text to improve the presentation   *Intermediate Set Theory* F. R. Drake,D. Singh,1996-09-11 The authors cover first order logic and the main topics of set theory in a clear mathematical style with sensible philosophical discussion The emphasis is on presenting the use of set theory in various areas of mathematics with particular attention paid to introducing axiomatic set theory showing how the axioms are needed

in mathematical practice and how they arise Other areas introduced include the axiom of choice filters and ideals Exercises are provided which are suitable for both beginning students and degree level students *A Set Theory Workbook* Iain Adamson,1997-12-18 This book is a companion to A general topology workbook published by Birkhiiuser last year In an ideal world the order of publication would have been reversed for the notation and some of the results of the present book are used in the topology book and on the other hand the reader may be assured no topology is used here Both books share the word Workbook in their titles They are based on the principle that for at least some branches of mathematics a good way for a student to learn is to be presented with a clear statement of the definitions of the terms with which the subject is concerned and then to be faced with a collection of problems involving the terms just defined In adopting this approach with my Dundee students of set theory and general topology I found it best not to differentiate too precisely between simple illustrative examples easy exercises and results which in conventional textbooks would be labelled as Theorems

Elements of Set Theory Herbert B. Enderton,1977-04-28 This is an introductory undergraduate textbook in set theory In mathematics these days essentially everything is a set Some knowledge of set theory is necessary part of the background everyone needs for further study of mathematics It is also possible to study set theory for its own interest it is a subject with intruiging results anout simple objects This book starts with material that nobody can do without There is no end to what can be learned of set theory but here is a beginning **Sets: Naïve, Axiomatic and Applied** D. Van Dalen,H. C. Doets,H. De Swart,2014-05-09 Sets Na ve Axiomatic and Applied is a basic compendium on na ve axiomatic and applied set theory and covers topics ranging from Boolean operations to union intersection and relative complement as well as the reflection principle measurable cardinals and models of set theory Applications of the axiom of choice are also discussed along with infinite games and the axiom of determinateness Comprised of three chapters this volume begins with an overview of na ve set theory and some important sets and notations The equality of sets subsets and ordered pairs are considered together with equivalence relations and real numbers The next chapter is devoted to axiomatic set theory and discusses the axiom of regularity induction and recursion and ordinal and cardinal numbers In the final chapter applications of set theory are reviewed paying particular attention to filters Boolean algebra and inductive definitions together with trees and the Borel hierarchy This book is intended for non logicians students and working and teaching mathematicians **Set Theory** Kenneth Kunen,1980-01-01 **Solutions Manual for Techniques of Problem Solving** Fernandez Luis,H. Gooransarab,1997 This manual contains solutions to most of the exercises in the book Techniques of Problem Solving by Steven G Krantz It is essential that this manual be used only as a reference and never as a way to learn how to solve the exercises It is strongly ecouraged never to look up the solution of any exercise before attempting to solve it The attempt time will alwayas be as rewarding to the student or maybe more as solving the exercise itself **Excercises (i. E. Exercises) in Set Theory** L. E. Sigler,1976

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