

Chapter 1

1.1 Rings, Ideals, Radicals

1. Exercise 1. Show that if x is nilpotent and u is a unit, $x + u$ is a unit.

Exercise 1 solution. Suppose $x^n = 0$. First consider $n = 1$. We have $(1 + x)u(1 - x + x^2 - \cdots + (-1)^{n-1}x^{n-1}) = 1 + (-1)^{n-1}x^n = 1$. Thus $1 + x$ is a unit. Now for arbitrary n , we have $u + x = u(1 + u^{-1}x)$, and since $u^{-1}x$ is clearly nilpotent and the unit group is closed under products, $u + x$ must be a unit as well.

2. Exercise 2. Let $f = a_0 + a_1x + \cdots + a_nx^n \in A[x]$. Prove that

- (a) f is a unit of $A[x]$ if and only if all the coefficients but the constant term are nilpotents of A and the constant term is a unit of A .

Exercise 2a solution. One direction is easy: if a_0 is a unit and $a_1, \dots, a_n$ are nilpotents, then $a_1x + \cdots + a_nx^n$ is in the nilradical of $A[x]$, and then the previous problem shows that $f = a_0 + (a_1x + \cdots + a_nx^n)$ is a unit.

In the other direction, let f be a unit; suppose $fg = 1$. Looking at the constant terms, it is clear that a_0 is a unit. Now for the higher-degree terms, it is enough to show a_n is nilpotent, for if it is, then $f' = f - a_nx^n$ is a unit by Exercise 1. Then by the same argument it will be true that a_{n-1} , the next coefficient of f' , is nilpotent, and so on down the line.

Suppose $g = b_0 + b_1x + \cdots + b_mx^m$. Then $a_nb_m = 0$. Furthermore, $a_{n-1}b_m + a_nb_{m-1} = 0$; multiplying by a_n , we find $a_na_{n-1}b_m + a_n^2b_{m-1} = 0$. But the first term is zero since a_nb_m is zero. So $a_n^2b_{m-1} = 0$ too. Continuing inductively, the coefficient of the term x^r in the product is $\sum_{i+j=r} a_ib_j$ (where $i, j \geq 0$), and this is zero if $k \geq 1$ because $fg = 1$. If $k \geq n$, writing $k = m + n - r$ (so $r \leq m$), we can rewrite this sum as

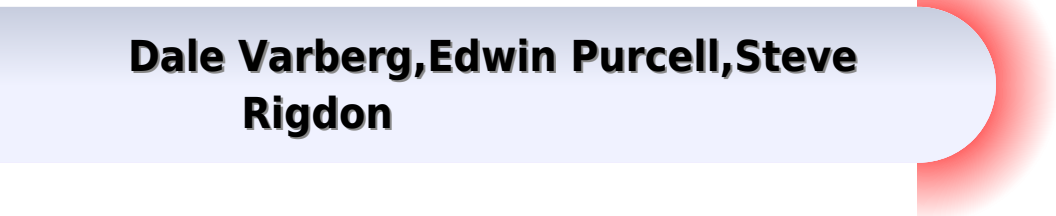
$$\sum_{i=0}^r a_{n-i-1}b_{m-i} = 0$$

provided we define $a_{n-i-1} = 0$ if $n - i - 1 < 0$ (which will happen if $r > n$). This equation is true for all r satisfying $r \leq m$, since this implies $m + n - r \geq n > 0$. (There is nothing to prove when $m = 0$.) We have shown $a_nb_m = 0$, and we contend $a_n^2b_{m-1}$ is zero for all $r \leq m$. We prove it by induction on r , with the case $r = 0$ the case just handled. (In fact, we handled $r = 1$ as an induction of the induction step.) Multiply the above equation by a_n^2 :

$$\sum_{i=0}^r a_n^2 a_{n-i-1} b_{m-i} = 0$$

Solution Manual To Spivak Calculus

**Dale Varberg, Edwin Purcell, Steve
Rigdon**



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Foundations of Logic and Mathematics Yves Nievergelt, 2012-12-06 This modern introduction to the foundations of logic mathematics and computer science answers frequent questions that mysteriously remain mostly unanswered in other texts Why is the truth table for the logical implication so unintuitive Why are there no recipes to design proofs Where do these numerous mathematical rules come from What are the applications of formal logic and abstract mathematics What issues in logic mathematics and computer science still remain unresolved Answers to such questions must necessarily present both theory and significant applications which explains the length of the book The text first shows how real life provides some guidance for the selection of axioms for the basis of a logical system for instance Boolean classical intuitionistic or minimalistic logic From such axioms the text then derives detailed explanations of the elements of modern logic and mathematics set theory arithmetic number theory combinatorics probability and graph theory with applications to computer science The motivation for such detail and for the organization of the material lies in a continuous thread from logic and mathematics to their uses in everyday life **A Journey Through The Realm of Numbers** Menny Aka, Manfred Einsiedler, Thomas Ward, 2020-10-03 This book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory The journey starts with the basic idea that new number systems arise from solving different equations leading to abstract algebra Along this journey the reader will be exposed to important ideas of mathematics and will learn a little about how mathematics is really done Starting at an elementary level the book gradually eases the reader into the complexities of higher mathematics in particular the formal structure of mathematical writing definitions theorems and proofs is introduced in simple terms The book covers a range of topics from the very foundations numbers set theory to basic abstract algebra groups rings fields driven throughout by the need to understand concrete equations and problems such as determining which numbers are sums of squares Some topics usually reserved for a more advanced audience such as Eisenstein integers or quadratic reciprocity are lucidly presented in an accessible way The book

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