

II Chapter 1

1.1 Rings, Ideals, Fractions

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

Exercise 2 solution. Suppose $a^{m+1} = 0$. First consider $a = 1$. We know $(1 + a)[a] = a + a^2 + \dots + (a + a^{m+1}) = 1 + (1 + a^{m+1})a^m = 1$. Thus $1 + a$ is a unit. Now the *subset rule*: we know $a = a + a + \dots + a$ (in $\mathbb{Z}[a]$), and since $a^{m+1}a$ is clearly nilpotent and the unit group is closed under products, $a + a$ must be a unit as well.

2. Exercise 2. Let $f = a_0 + a_1x + \dots + a_nx^n \in \mathbb{A}[x]$. (Prove that

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

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

For the other direction, let f be a unit; suppose $f_0 = 1$. 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 final coefficient of f' , is nilpotent, and so on down the line.

Suppose $g = b_0 + b_1x + \dots + b_nx^n$. Then $a_0b_0 = 1$. Furthermore, $a_1b_0 + a_2b_{n-1} + \dots + a_nb_1 = 0$, multiplying by a_n , we find $a_nb_{n-1} + a_{n-1}b_n = 0$. (But the first term is zero since a_n is zero.) So $a_nb_{n-1} = 0$ too. (Continuing inductively, the coefficient of the term x^i in the product is $\sum a_ib_{n-i}$ by Exercise 1, $i \geq 0$, and this is zero if $i \geq 1$ because $f_0 = 1$. If $i = 0$, writing $0 = a_0b_0 + a_1b_1 + \dots + a_nb_n$, we can rewrite this sum as

$$\sum_{i=1}^n a_ib_{n-i} = 0$$

provided we delete $a_{n-1}b_n = 0$ if $n - 1 < 0$ (which will happen if $n > m$). This equation is true for all n multiplying $n \leq m$, since this implies $n - m = n - 2m \geq 0$. (There is nothing to prove when $n = 0$.) We know $a_nb_{n-1} = 0$, and we conclude a_nb_{n-1} is zero for all $n \leq m$. We prove it by induction on n , with the case $n = 0$ the case just handled. (In fact, we handled $n = 1$ as an induction step of the induction step.) Multiplying the above equation by a_n^2 ,

$$\sum_{i=1}^n a_n^2 a_ib_{n-i} = 0$$

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**Monty J. Strauss, Magdalena Daniele
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