

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 $a = a + a(1 + a^{m+1})$, and since a^{m+1} is clearly nilpotent and the unit group is closed under products, $a + a$ must be a unit as well.

2. Exercise 2. Let $f = a_0 + a_1x + \dots + a_nx^n \in A[x]$. (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 $a_0 + \dots + a_nx^n$ is in the preimage of $A[x]$, and then the previous problem shows that $f = a_0 + (a_1 + \dots + a_n)x^n$ is a unit.

For 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 not, 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 $g = b_0 + b_1x + \dots + b_mx^m$. Then $a_0b_0 = 1$. Furthermore, $a_1b_0 + a_2b_{m-1} + \dots + a_mb_0 = 0$, multiplying by a_0 , we find $a_1b_0 + \dots + a_mb_0 = 0$. (But the first term is zero since a_0 is zero.) So $a_1b_0 = -a_2b_{m-1} - \dots - a_mb_0$. (Continuing inductively, the coefficient of the term x^i in the product is $\sum a_ib_{m-i}$ by Exercise 1, $i \geq 0$, and this is zero if $i \geq 1$ because $fg = 1$. If $i = 0$, writing $0 = a_0b_0 + a_1b_1 + \dots + a_mb_m$, we can rewrite this sum as

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

provided we choose $a_{m-1} = 0$ if $m - 1 < 0$ (which will happen if $m > 0$). This equation is true for all m multiplying $m \leq m$, since this implies $m - m = m - 2m \geq 0$. (This is nothing to prove when $m = 0$.) We know $a_1b_0 = 0$, and we conclude a_ib_{m-i} is zero for all $i \leq m$. We prove it by induction on i , with the case $i = 0$ the case just handled. (In fact, we handled $i = 1$ as an induction step of the induction step.) Multiplying the above equation by a_1^i ,

$$\sum_{i=1}^m a_1^i a_ib_{m-i} = 0$$

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Michael Sullivan

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