1 Chapter 1

L.1 Rings, Ideals, Radicals

Exercise 1. Show that if it is nilpotent and u is a unit, it a u is a unit.

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

- Exercise 2. Let f = a₀ + a₁x + · · · · · a₀x* + A[x]. Prove that
 - (a) f is a unit of A[x] if and only if all the coefficients but the constant trem are adjustment of A and the constant term is a unit of A.

Envelope 2n solution. One direction is easy: if a_0 is a mait and $a_1, ..., a_n$ are nilpotents, then $a_0x \leftarrow +a_nx^n$ is in the nilpodical of A[x], and then the previous problem shows that $f = a_0 + (a_1x + ... + a_nx^n)$ 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 sulpotent, for if it is, then $f' = f - a_n x^n$ is a unit by Exercise 1. Then by the same argument it will be true that a_{n+1} , the lead coefficient of f', is sulpotent, and so on down the line.

Suppose $g = b_0 + b_1 x v \cdots v b_{m} x^m$. Then $a_n b_m = 0$. Furthermore, $a_{m-1}b_m + a_n b_{m-1} = 0$; usultiplying by a_m , we find $a_m a_{m-1}b_m + a_n^2 b_{m-1} = 0$. But the first term is zero since $a_m b_m$ is zero. So $a_m^2 b_{m-1} = 0$ too. Continuing inductively: the coefficient of the term x^n in the product is $\sum_{m \geq 0} a_n b_n$ (where $i, j \geq 0$), and this is zero if $k \geq 1$ because $f_R = 1$. If $k \geq n$, writing k = m + n - r (so $r \leq m$), we can rewrite this sum as

$$\sum_{i=1}^n a_{2n-i} \cdot a_i b_{2n-i} = 0$$

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

$$\sum_{n=0}^\infty a_n^r a_n, \ldots, a_n b_{nn-1} = 0$$

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