

Sample Examination Questions: Solutions

1. (a) The degree of a polynomial $f(x)$ in $k[x]$, $\deg(f)$, is defined as follows:
- If $f(x) = 0$, the zero polynomial, so that all coefficients in $f(x)$ are equal to 0, then the degree of $f(x)$ is $-\infty$; $\deg(0) = -\infty$.
 - If $f(x) \neq 0$, so that $f(x)$ has the form $a_0 + a_1x + \cdots + a_nx^n$, for a_0, a_1, \dots, a_n in k , and $a_n \neq 0$, then the degree of $f(x)$ is n : $\deg(f) = n$, i.e. the degree of $f(x)$ is the largest non-negative integer i for which a_i is not equal to 0.
- (b) Given $a(x), b(x) \in k[x]$, where $b(x) \neq 0$, let us first show that there exist $q(x), r(x) \in k[x]$ such that $a(x) = q(x)b(x) + r(x)$ and $\deg(r) < \deg(b)$.
To do so, we may start with any $q'(x)$ and $r'(x)$ that satisfy $a(x) = q'(x)b(x) + r'(x)$, e.g. we may start with $q'(x) = 0$ and $r'(x) = a(x)$:

$$a(x) = 0 \cdot b(x) + a(x)$$

If the condition $\deg(r') < \deg(b)$ holds, then we may immediately choose $q(x)$ to be 0 and $r(x)$ to be $a(x)$.

Otherwise, if the condition $\deg(r') < \deg(b)$ does not hold, then we may (perhaps repeatedly) apply the following:

Suppose that $\deg(r') \geq \deg(b)$. We may express $r'(x)$ and $b(x)$ as the following polynomials with coefficients in the field k :

$$\begin{aligned} r'(x) &= r_nx^n + r_{n-1}x^{n-1} + \cdots + r_1x + r_0 && \text{for } r_n \neq 0 \\ b(x) &= b_mx^m + b_{m-1}x^{m-1} + \cdots + b_1x + b_0 && \text{for } b_m \neq 0 \end{aligned}$$

Note that the presence of a non-zero coefficient in $b(x)$ follows from the assumption that $b(x) \neq 0$, while the presence of a non-zero coefficient in $r'(x)$ follows, subsequently, from the assumption that $\deg(r') \geq \deg(b)$; from this, we also obtain $n \geq m$.

Then, we may obtain a "new" remainder of smaller degree by considering $r_nb_m^{-1}x^{n-m}b(x)$ (note that, since $b_m \neq 0$, and the coefficients are in a field k , the element b_m is invertible, so that we may use b_m^{-1} , as we do below):

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