# 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 $a_0 + a_1 x + \cdots + a_n x^n$, for $a_0, a_1, \cdots, a_n$ 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 $k$:

    $$r'(x) = r_n x^n + r_{n-1}x^{n-1} + \cdots + r_1 x + r_0 \qquad \text{for } r_n \neq 0$$
    $$b(x) = b_m x^m + b_{m-1}x^{m-1} + \cdots + b_1 x + b_0 \qquad \text{for } b_m \neq 0$$

    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 $r_n b_m^{-1} x^{n-m} b(x)$ (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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