

## 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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**Albert A Gayle**



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