

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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Washington Assignment Notebook, 1985 **Department of State Publication**, 1985 **Resources in Education**, 1995-05 **Women, Minorities, and Persons with Disabilities in Science and Engineering**, 1996 **Tests in Print** Oscar

Krisen Buros,1974 *Research in Education* ,1971 **Popular Mechanics** ,1946-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **ICOPE 2020** Ryzal Perdana,Gede Eka Putrawan,Sunyono,2021-03-24 We are delighted to introduce the Proceedings of the Second International Conference on Progressive Education ICOPE 2020 hosted by the Faculty of Teacher Training and Education Universitas Lampung Indonesia in the heart of the city Bandar Lampung on 16 and 17 October 2020 Due to the COVID 19 pandemic we took a model of an online organised event via Zoom The theme of the 2nd ICOPE 2020 was Exploring the New Era of Education with various related topics including Science Education Technology and Learning Innovation Social and Humanities Education Education Management Early Childhood Education Primary Education Teacher Professional Development Curriculum and Instructions Assessment and Evaluation and Environmental Education This conference has invited academics researchers teachers practitioners and students worldwide to participate and exchange ideas experiences and research findings in the field of education to make a better more efficient and impactful teaching and learning This conference was attended by 190 participants and 160 presenters Four keynote papers were delivered at the conference the first two papers were delivered by Prof Emeritus Stephen D Krashen from the University of Southern California the USA and Prof Dr Bujang Rahman M Si from Universitas Lampung Indonesia The second two papers were presented by Prof Dr Habil Andrea Bencsik from the University of Pannonia Hungary and Dr Hisham bin Dzakiria from Universiti Utara Malaysia Malaysia In addition a total of 160 papers were also presented by registered presenters in the parallel sessions of the conference The conference represents the efforts of many individuals Coordination with the steering chairs was essential for the success of the conference We sincerely appreciate their constant support and guidance We would also like to express our gratitude to the organising committee members for putting much effort into ensuring the success of the day to day operation of the conference and the reviewers for their hard work in reviewing submissions We also thank the four invited keynote speakers for sharing their insights Finally the conference would not be possible without the excellent papers contributed by authors We thank all authors for their contributions and participation in the 2nd ICOPE 2020 We strongly believe that the 2nd ICOPE 2020 has provided a good forum for academics researchers teachers practitioners and students to address all aspects of education related issues in the current educational situation We feel honoured to serve the best recent scientific knowledge and development in education and hope that these proceedings will furnish scholars from all over the world with an excellent reference book We also expect that the future ICOPE conference will be more successful and stimulating Finally it was with great pleasure that we had the opportunity to host such a conference **Comprehensive Dissertation Index: Mathematics & statistics. Physics, A-E** ,1984 *Resources in Education* ,1990 **Tests in Print II** Oscar Krisen Buros,1974 **Government Reports Announcements & Index** ,1987 *The Condition of Education*

,1999 Statistical Theory and Method Abstracts ,1988 **Index to Corrections, Addenda, and Comments that Were
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