

# Topics in Algebra solution

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## Problems in Section 3.9.

1. Find the greatest common divisor of the following polynomials over  $F$ , the field of rational numbers.

a)  $x^3 - 6x^2 + x + 4$  and  $x^3 - 6x + 1$ .

*Solution.* Observe that

$$\begin{aligned}x^3 - 6x + 1 &= (x^2 + 6x + 35)(x^3 - 6x^2 + x + 4) + 200x^2 - 65x - 139, \\x^3 - 6x^2 + x + 4 &= \left(\frac{x}{200} - \frac{227}{8000}\right)(200x^2 - 65x - 139) + \left(-\frac{239}{1600}x + \frac{447}{8000}\right), \\200x^2 - 65x - 139 &= \left(-\frac{320000}{239}x - \frac{3752000}{57121}\right)\left(-\frac{239}{1600}x + \frac{447}{8000}\right) - \frac{7730176}{57121}, \\-\frac{239}{1600}x + \frac{447}{8000} &= \left(\frac{13651919}{12368281600}x - \frac{25533087}{61841408000}\right)\left(-\frac{7730176}{57121}\right) + 0\end{aligned}$$

Thus the greatest common divisor of  $x^3 - 6x^2 + x + 4$  and  $x^3 - 6x + 1$  is 1.  $\square$

b)  $x^2 + 1$  and  $x^6 + x^3 + x + 1$ .

*Solution.* Note that  $x^6 + x^3 + x + 1 = (x^4 - x^2 + x + 1)(x^2 + 1)$  so that their greatest common divisor is  $x^2 + 1$ .  $\square$

2. Prove that

a)  $x^2 + x + 1$  is irreducible over  $F$ , the field of integers mod 2.

*Proof.* Substituting  $x = 0$  and  $x = 1$  both to  $x^2 + x + 1$  yields 1 mod 2, so that  $x^2 + x + 1$  is irreducible over  $F$ .  $\square$

b)  $x^2 + 1$  is irreducible over the integers mod 7.

# Topics In Algebra Solution

**Tobias Bleicker**



## Topics In Algebra Solution:

Modern Algebra Raleigh Schorling, John Roscoe Clark, Selma A. Lindell, 1929      Student Solutions Manual to Accompany Calculus Richard B. Lane, Lane, 1993      **The American Mathematical Monthly**, 1917 Includes section Recent publications  
*Solutions Core Pupil Book 7* David Baker, 2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format      **Course Catalog** Northeastern University (Boston, Mass.), 1958      *Catalogue for the Year ... and Announcement for the Year ...* University of Wyoming, 1915      **History of Mathematics: Special topics of elementary mathematics** David Eugene Smith, 1925  
*Solutions Support Book 7* David Baker, 2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format      *Host Bibliographic Record for Boundwith Item Barcode 30112100630976 and Others*, 1896      **STANDARD ALGEBRA** MILNE-DOWNEY, 1911      *Catalogue of Miami University at Oxford, Ohio* Miami University (Oxford, Ohio), 1891      **Report of the Commissioners, Mainly on Secondary Education, Containing the Summarised Reports, Recommendations, and Extended Reports of the Commissioners** New South Wales. Commission on primary, secondary, technical, and other branches of education, 1904 A report on the provision of secondary education from selected countries around the world  
**Catalogue** Ohio State University, 1910      *Bulletin* University of California (System). University Extension, 1916  
**High School Manual** University of Illinois (Urbana-Champaign campus). High School Visitor, 1918      **Nigerian Educational Digest**, 2007      *Helping Students Understand Algebra II, Grades 7 - 8* Sandall, Swarthout, 2008-08-28  
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*Announcements*, 1912      **Annual Report** University of Michigan. Bureau of Cooperation with Educational Institutions, 1928      *Catalogue of the University of Nashville, Peabody Normal College* George Peabody College for Teachers, 1928

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