Algebra in the Secondary School Curriculum

The course is designed for those who wish to refresh their abstract algebra skills and for those preparing to take the CSET subtest I. Topics will be selected from the standards stressed in the CSET subtest I. The examination requires that the candidate demonstrate a deep conceptual knowledge of each content domain i.e. the topics selected are tested from an advanced viewpoint. The main focus of the course will be to guide the students in developing this deep conceptual knowledge by working in small groups on related problems of increasing complexity and depth. Topics covered will include properties of the real and complex numbers and those properties in a more abstract setting i.e. elementary group and ring theory, solution sets of polynomial equations and inequalities, functions and their properties, vectors and matrices, systems of linear equations and selected topics from number theory. This course will be taught by Dr. John Elwin and may be taken for credit.

Who Should Attend:
- Teachers who need to take mathematics CSET subtest I
- Preservice students seeking a Foundational Math credential
- Liberal studies majors with a math specializations
- Persons who want to strengthen their algebra skills

Benefits: Free Course, Materials & Test Fee Reimbursement
Dates: June 25 – July 13, 2012 (Monday through Friday)
Time: 9:00 a.m. – 12:00 p.m.
Location: San Diego State University

\[(x^2 - 3) - 8 = 25\]
\[x^2 - 3 = 33\]
\[x^2 = 36\]
\[x = \pm 6\]

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Fax, e-mail, or mail registration by June 1, 2012

Name: __________________________ Status: ____ SDSU Student ____ Teacher ____ Other
E-mail: __________________________ Phone Number: ______________________

If SDSU student, please provide the following: Red ID #: __________________ Major: __________________

If teacher, please provide the following: School Name: ______________________ District: __________________

If other, then please specify: ____________________________

Please fax, e-mail, or mail to:
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[Image of San Diego State University Math/Science Teacher Initiative logo]