

# Math Solutions: Algebra and Geometry for High School Teachers

## Course Description

This course presents teachers with the rationale for teaching mathematics through problem solving and using effective instructional strategies that promote thinking and reasoning within the content areas of Algebra and Geometry. Participants will become familiar with and engaged in the eight Standards for Mathematical Practice identified in the Common Core State Standards (CCSS).

The content and experiences will focus the mathematical content and instructional strategies necessary for developing students' algebraic and geometric thinking.

This course will help teachers to:

- Examine instructional tasks that build students' understanding of algebra/geometry concepts.
- Understand how manipulative materials, contexts familiar to students, and problem solving experiences can be used to support students' development of algebraic/geometric thinking.
- Experience a variety of ways to organize the classroom—whole-class, small-group, and individual learning.
- Identify and analyze strategies to help students see arithmetic, geometry, and algebra as connected topics integral to the study of mathematics.
- Experience a classroom atmosphere that stimulates and supports students' learning of algebraic/geometric concepts and skills.

## Course Details

Math Solutions: Algebra and Geometry for High School Teachers (Grades 9–12)

**Date:** July 25–28, 2011

### Time

Registration: 8:00 A.M.

Course: 8:30 A.M.–3:30 P.M.

### Enrollment includes:

- A Math Solutions resource book full of classroom-tested lessons
- A sample kit of manipulative materials
- A subscription to our online newsletter
- Discounts on Math Solutions books and resources
- Lunch each day

**Host:** The Center for Mathematics and Science Education, Teaching and Technology at John Carroll University

**Location:** John Carroll University  
20700 North Park Boulevard  
University Heights, OH 44118  
Map: [www.jcu.edu/about/map.htm](http://www.jcu.edu/about/map.htm)

**Non-degree Graduate Credit (optional):** \$320 for 2 hours

**Registration Fee:** \$625 per participant which includes all course materials and lunch each day. (Note: Graduate credit tuition is not included in the registration fee).

**Register by:** June 17, 2011

## Registration

Send your completed registration form with a check for \$625 payable to 'John Carroll University' or send a purchase order to:

John Carroll University, CMSETT  
20700 North Park Boulevard  
University Heights, OH 44118

OR fax form with purchase order to 216.397.4544

Upon receipt of your application and payment, you will receive an email confirmation of your registration. **By June 15, you will receive an additional email with workshop details. Please contact Lynn at CMSETT if you do not receive this information (216.397.4575).**

**Cancellation Policy:** Workshops that do not have the minimum enrollment are subject to cancellation. In the case of cancellation, all participants will be notified and a full refund will be issued.

Note: Registration fee is not refundable after May 1, 2011, however, you may transfer your registration to another person at the same grade level.

Questions? Contact: [cmsett@jcu.edu](mailto:cmsett@jcu.edu)

Name of Participant

Home Address

City

State

ZIP

Daytime Telephone

Home Telephone

Email

School

District

Title

Grade Level

## Method of Payment

Registration must be paid with a check or district purchase order. Please indicate method of payment below:

- Purchase Order # \_\_\_\_\_
- Check Is Enclosed

