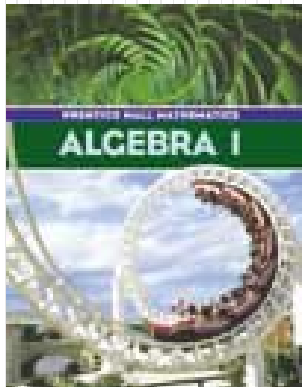
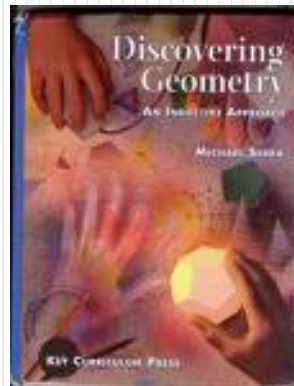


# Mr. Northcutt's Math Classes Class Presentation

April 15, 2009 (138)



Math 1



Math 2



Applied Math



# Math 1 – Daily Summary

- **Announcements**
  - **QUIZ: Sections 7.1 thru 7.7 on THURSDAY!**
- **Class Objectives – What you should learn today?**
  - Chapter 7 Review
    - Solving Systems of Equations
      - Graphing
      - Substitution
      - Elimination
    - Solving Systems of Linear Inequalities
- **Assignment**
  - **Worksheet:** Chapter 7 Review/Sample Quiz



# Math 2 – Daily Summary

- **Announcements**

- **Scale Drawing Project - Thursday & Friday - Find Picture!**
  - See Instructions: “**Making a Mural**” on page 593.

- **Class Objectives – What you should learn today?**

- Definition of Similar Figures/Polygons
  - Terminology and symbols
- Ability to determine if two figures are similar.

- **Assignment**

- **Lesson 12.2:** 1-9, 12-18, 21
- Project “Original” (cartoon, drawing, picture, logo...)



# Similar vs. Congruent Figures

- **Congruent Figures**

- Have the same shape and size.

- **Similar Figures**

- Have the same shape, but not necessarily the same size.

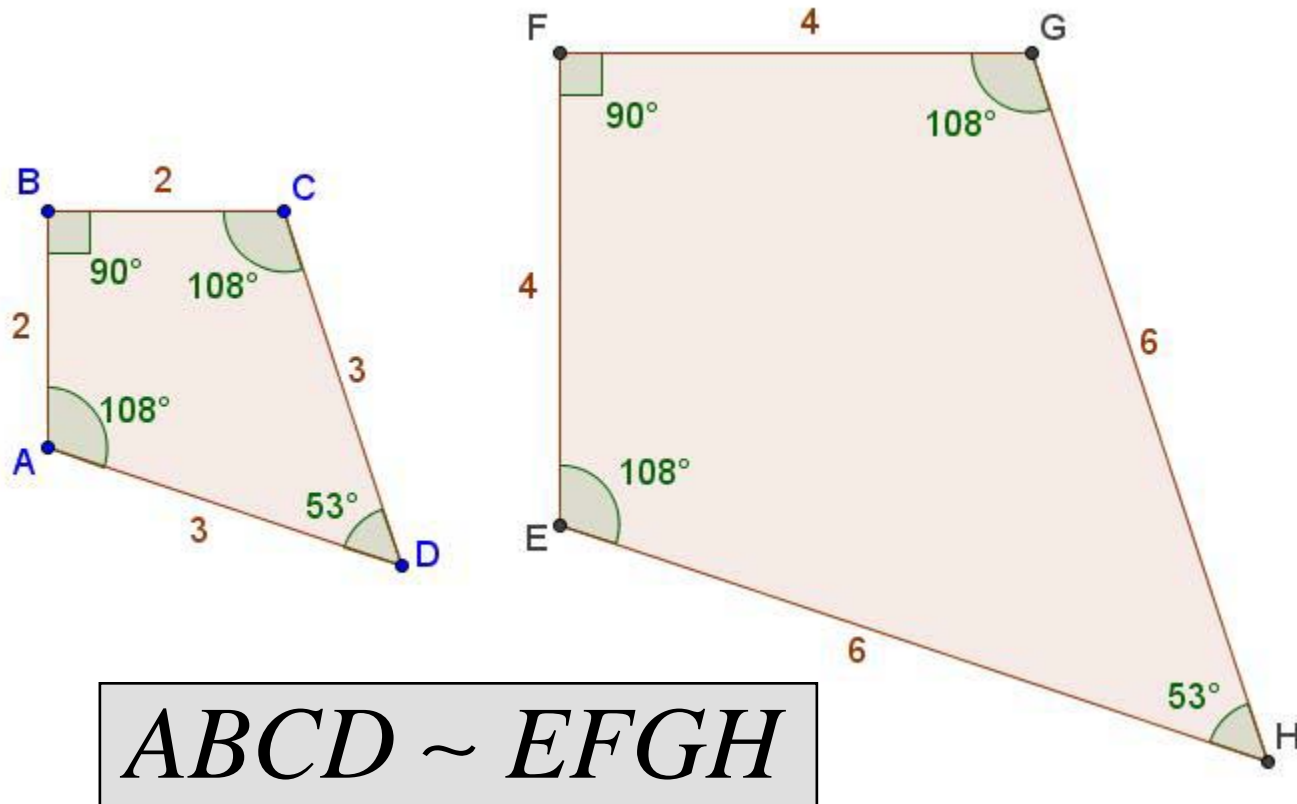
- **Examples:**

- Scale Drawings
- Scale Models
- Plans/Blueprints
- Movies
- Most design work...



# Similar Polygons

- We need more precision in our definition of similarity...
  - What makes two shapes (polygons) similar?



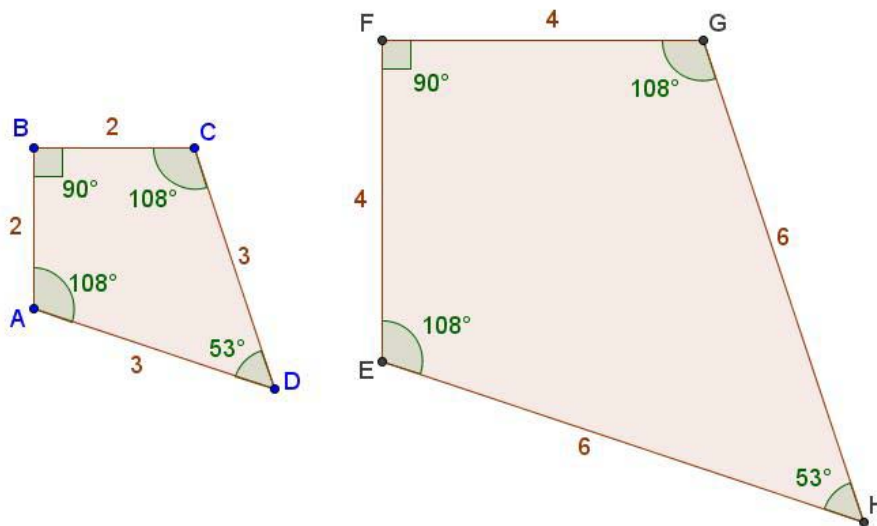


# Similar Polygons

## • Similar Polygons

- Two polygons are similar polygons **if and only if**
  - The corresponding angles are congruent, and
  - The corresponding sides are proportional.

$$ABCD \sim EFGH$$



$$\angle A \cong \angle E$$

$$\angle B \cong \angle F$$

$$\angle C \cong \angle G$$

$$\angle D \cong \angle H$$

Angles

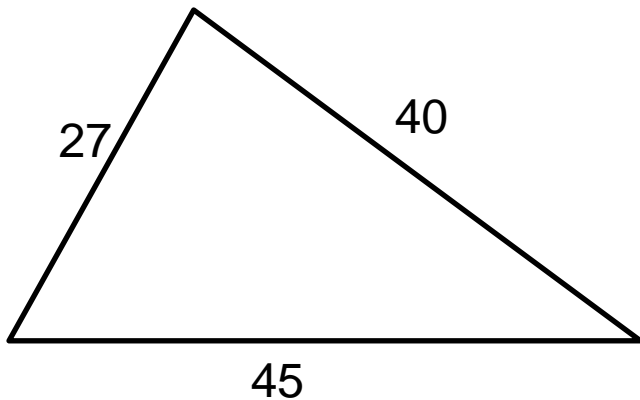
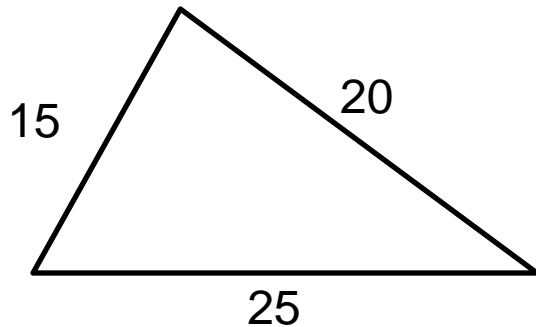
Sides

$$\frac{AB}{EF} = \frac{BC}{FG} = \frac{CD}{GH} = \frac{DA}{HE} = \text{Constant}$$



# Example

- Determine whether or not the triangles are similar.





# Applied Math – Daily Summary

- **Announcements**

- Probability and Counting Experiments...

- **Class Objectives – What you should learn today!**

- Introduce Probability Concepts
  - “Monte Hall” Dilemma

- **Assignment**

- NO HW