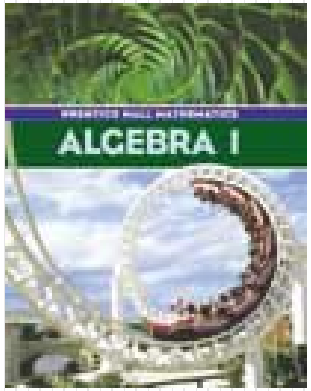
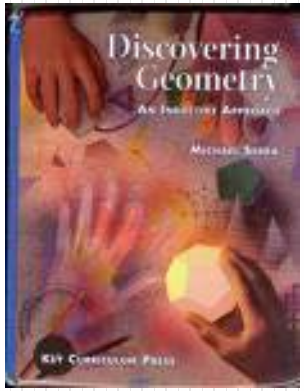
Mr. Northcutt's Math Classes
Class Presentation

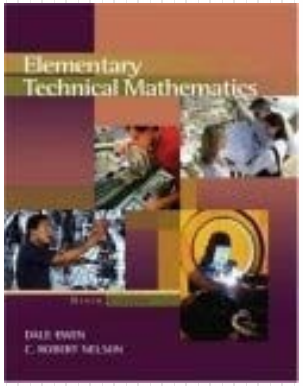
November 13, 2008 (50)



Math 1



Math 2



Applied Math

Math 1 – Daily Summary

- **Announcements**
  - Chapter 4 Test on Thursday (11/20)
- **Class Objectives**
  - Quiz on Sections 4-1 thru 4-3
  - HW Check After Completing Quiz
    - Catch-Up on Past Due HW, or
    - Work on Computers (if ALL HW completed)
- **Assignment**
  - No HW

Math 2 – Daily Summary

- **Announcements**
  - Chapter 5 Test, Thursday, November 20th
- **Class Objectives**
  - Flowchart Proofs (*Warning*: This Can be Challenging!)
    - CPCTC
    - Flowchart Proofs (Statement & Reason)
- **Assignment**
  - **Lesson 5.6**: 1-13, 17

HW Solutions – 5.5

1: ASA

2: SAS

3: SSS

4: AAS

5: CBD

6: CBD

7: CBD

8: WKL - ASA

9: OIC - ASA

10: TYW – ASA/AAS

11: NAP - SAS

12: SAT - SAS

13: PRN, SRE

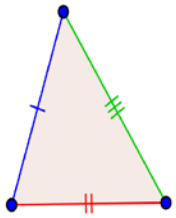
14: CBD

15: YES

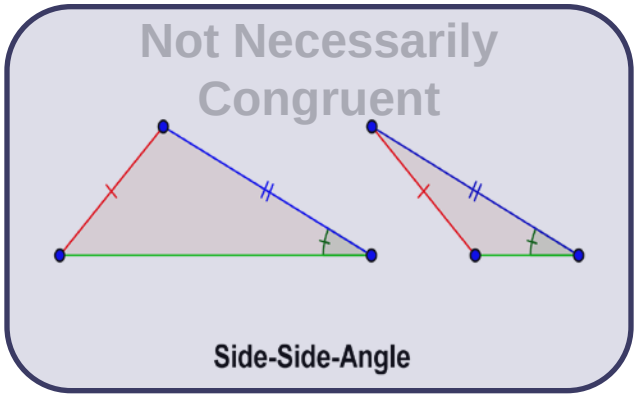
23: a=37 b=143 c=37 d=58 e=37 f=53 g=48 h=84 k= m= p= r= s=

First…Congruent Parts (CPCTC)

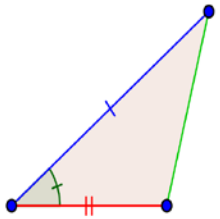
- **If two triangles are congruent, then the Corresponding Parts of the Congruent Triangles are Congruent (CPCTC).**



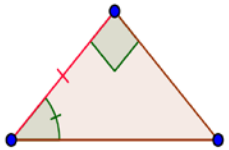
Side-Side-Side



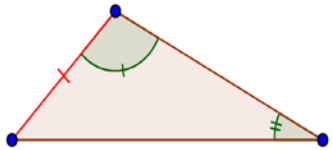
Side-Side-Angle



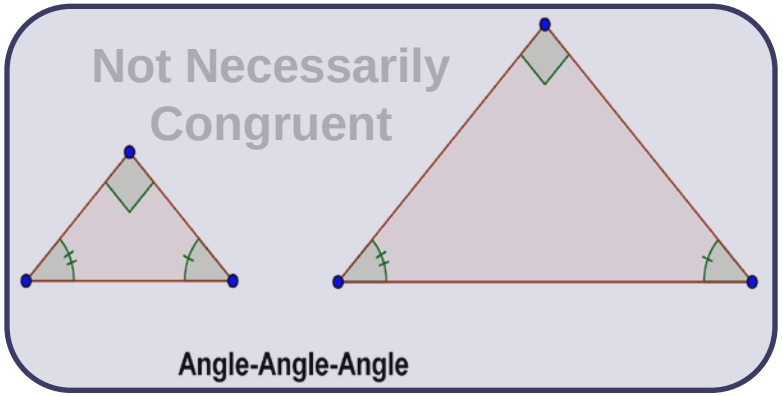
Side-Angle-Side



Angle-Side-Angle



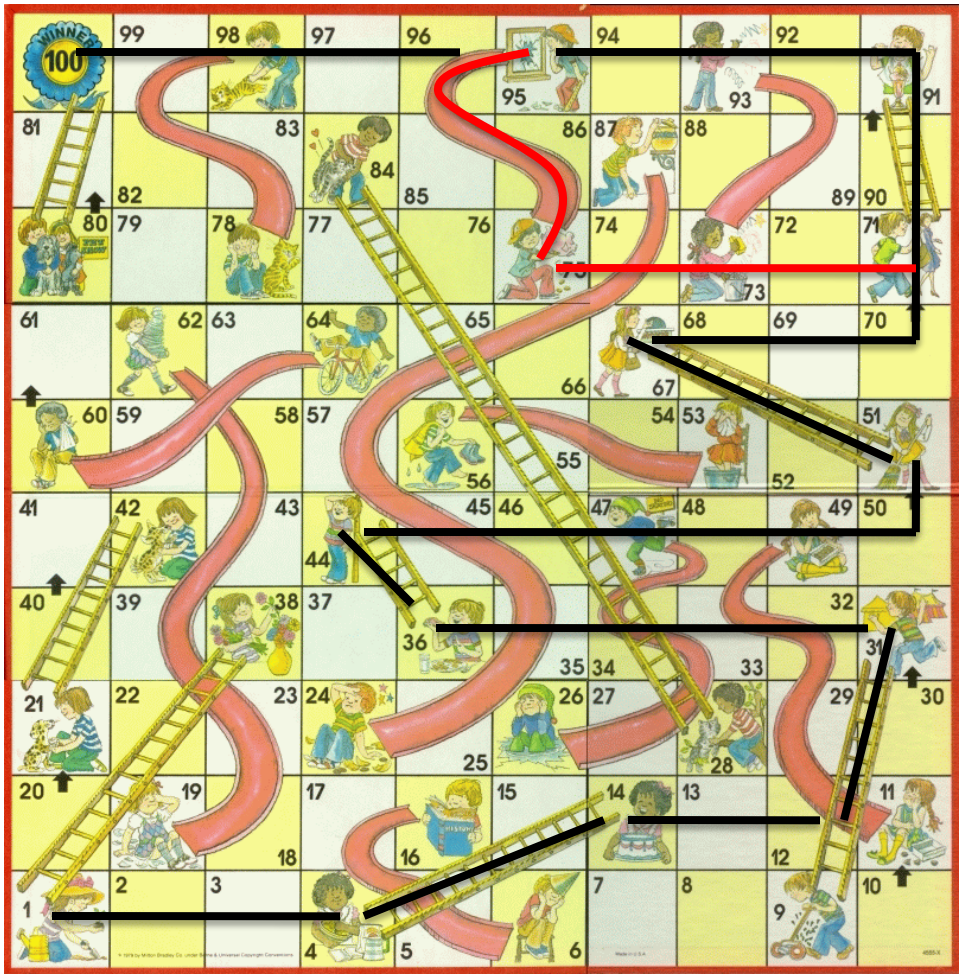
Side-Angle-Angle



Angle-Angle-Angle

Proofs – Chutes and Ladders

- **Do you remember the game of Chutes & Ladders?**
- **Proofs are similar!**
- **A Flowchart is similar to the path you follow in Chutes & Ladders.**



Thanks my wife for the analogy…

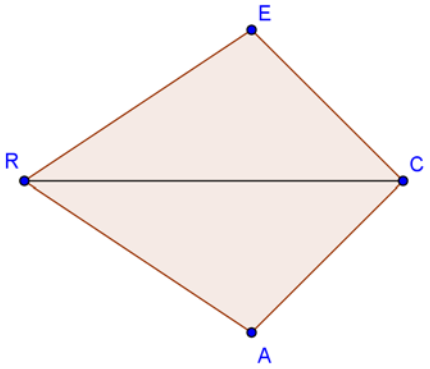
Now…A Proof

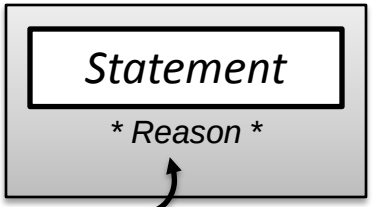
- **Flow Chart = A map that shows a step-by-step procedure through a complicated system (i.e., Chutes & Ladders)**
- **Flow Chart Proof = A logical argument (path) in the form of a flow chart.**

Given: $\overline{AR} \cong \overline{ER}$

$\overline{EC} \cong \overline{AC}$

Show: $\angle E \cong \angle A$





- Given information
- Conjecture
- Other Fact

$\overline{AR} \cong \overline{ER}$
Given

$\overline{EC} \cong \overline{AC}$
Given

$\overline{RC} \cong \overline{RC}$
Same Segment

$\Delta RCE \cong \Delta RCA$
SSS Congruence Conjecture

$\angle E \cong \angle A$
CPCTC

Let's Try Another Example

Given: ΔABC is isosceles with $\overline{AC} \cong \overline{BC}$. $\overline{CD}$ is the bisector of $\angle C$.

Show: $\Delta ADC \cong \Delta BDC$

$\overline{CD}$ is bisector of $\angle C$

1. Given

→ [ ]

2. Def. of Angle Bisector

ΔABC is isosceles with $\overline{AC} = \overline{BC}$

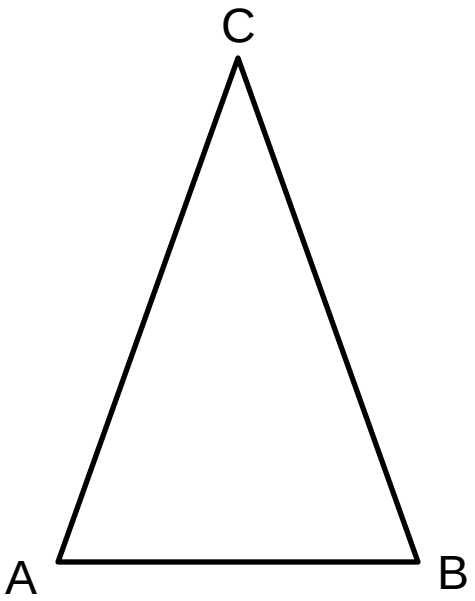
3. Given

$\overline{CD} = \overline{CD}$

4. Same Segment

→ $\Delta ADC \cong \Delta BDC$

5. _____



Applied Math – Daily Summary

- **Announcements**
  - Chapter 6 Test Next Thursday
- **Class Objectives**
  - Quiz on Sections 6.1 thru 6.6 (Equations)
    - HW Check After Completing Quiz
- **Assignment**
  - No HW