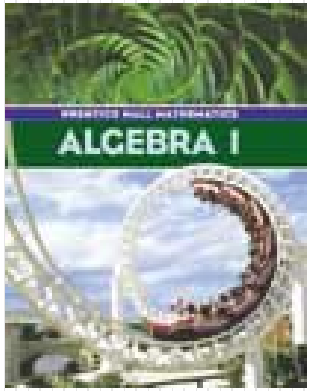
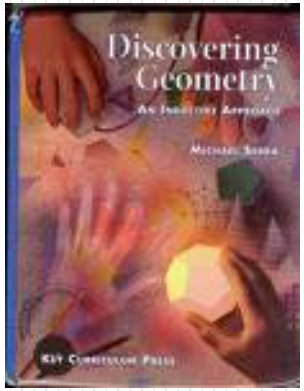
Mr. Northcutt's Math Classes
Class Presentation

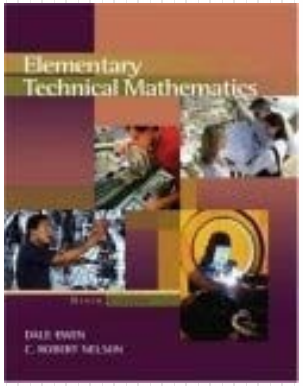
Monday, October 13, 2008 (29)



Math 1



Math 2



Applied Math

Math 1 – Daily Summary

- **Announcements**
  - NO COMPUTER GAMES…Until 100% Class Success!
  - Start 2-5: Problem Solving Tomorrow
- **Class Objectives**
  - Level-Specific Worksheets
    1. Integer Operations
    2. Order of Operations
    3. Equations I
    4. Equations II
  - Peer Tutoring

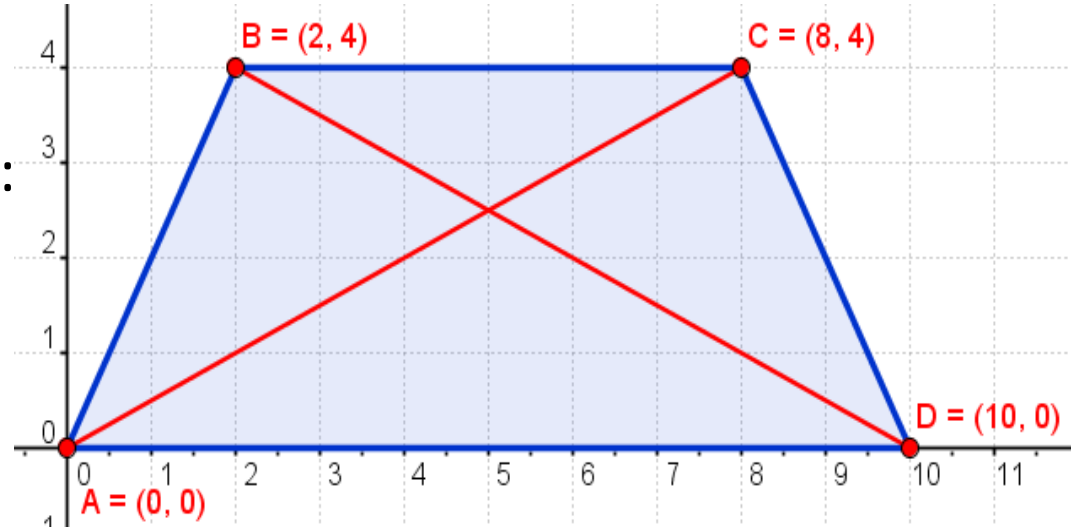
- **Assignment**
  - Equations II Worksheet (if not completed in class)

Math 2 – Daily Summary

- **Announcements**
  - Quiz: Lesson 4.1 thru 4.4 on Wednesday
- **Class Objectives**
  - Midpoint of a Line Segment
  - Slope of a Line (or Segment or Ray)
- **Assignment**
  - **Lesson 4.3**: 1-37 ODD, 38, 39

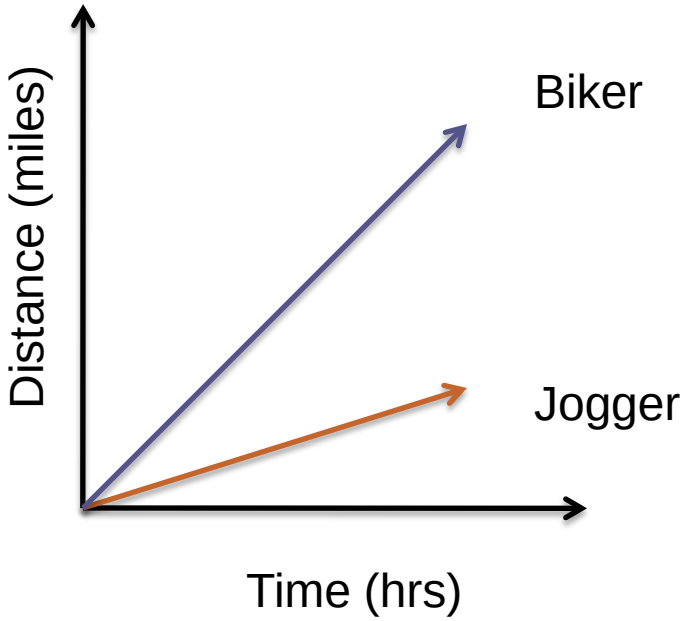
Midpoint and Slope

- **Midpoints**
  - Find and label midpoints of segments:
    - BC, AD, AB, DC
- **Slope (Rise/Run)**
  - Find slope of segments:
    - AD
    - AB
    - CD
    - EF
    - AC



Slope = Incline or Steepness

- **What does slope of a line tell us?**



- **Who is travelling faster, the biker or the jogger?**
- **Are the biker and jogger moving at constant speeds?**

Midpoint and Slope Conjectures

- **Midpoint Conjecture**
  - If two points (x_1,y_1) and (x_2,y_2) are the endpoints of a line segment, then the coordinates of the midpoint are:

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

- **Slope Conjecture**
  - The slope of a line (or segment or ray) through P1 and P2 with coordinates (x_1,y_1) and (x_2,y_2) where $x1 \neq x2$ is:

$$m = \frac{rise}{run} = \frac{\Delta y}{\Delta x} = \frac{y2 - y1}{x2 - x1}$$

Applied Math – Daily Summary

- **Announcements**
  - Begin Chapter 5 – Polynomials Tomorrow
- **Class Objectives**
  - Quiz: Chapter 3 – Metric System
- **Assignment**
  - NO HW