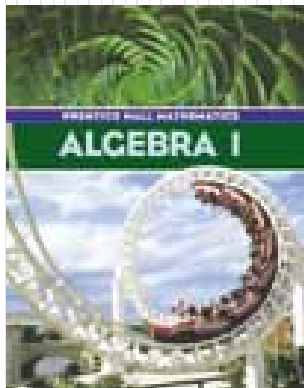
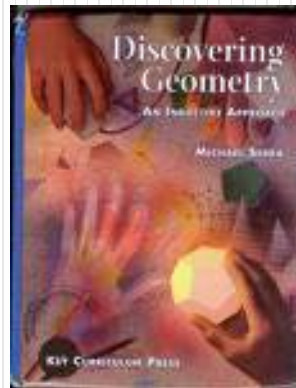


Mr. Northcutt's Math Classes Class Presentation

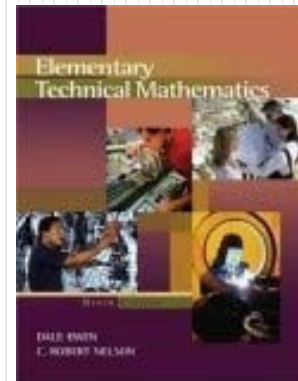
Tuesday, October 14, 2008 (30)



Math 1



Math 2



Applied Math

Math 1 – Daily Summary

- **Announcements**

- **NO COMPUTER GAMES unless:**
 - ALL HW is completed with work shown (show me)
 - Grade of C or better in the class (check PowerSchool)

- **Class Objectives**

- Problem Solving with Equations
 - Defining One Variable in Terms of Another

- **Assignment**

- **Lesson 2-5: 1-9, 18-20, 31**

Skills Check/Review

- **Write a variable expression for:**
 - Value in cents of q quarters
 - Twice the width w
 - Number of miles travelled at 34 mph in h hours
 - Weight of 5 crates if each crate weights x kilograms
 - Cost of n items at \$3.99 per item

One Variable in Terms of Another

- Some problems have more than one unknown quantity (variables)...and we only know how to solve equations with one variable...WHAT CAN WE DO?
- **Example: One Variable in Terms of Another**
 - The length of a rectangle is 6 in more than its width. The perimeter of the rectangle is 24 in. What is the length of the rectangle?

Consecutive Integers

- **Consecutive:** Following one another in uninterrupted succession or order.
- **Consecutive Integers:** 2, 3, 4, 5, ...
- **Example: Consecutive Integers**
 - The sum of three consecutive integers is 48.
 - A. Define a variable for one of the integers.
 - B. Write expressions for the other two integers.
 - C. Write and solve an equation to find the three integers.

Math 2 – Daily Summary

- **Announcements**

- **Quiz: Lesson 4.1 thru 4.3 Tomorrow**
 - This will include Midpoint and Slope material covered today...make sure you understand the HW problems!!!

- **Class Objectives**

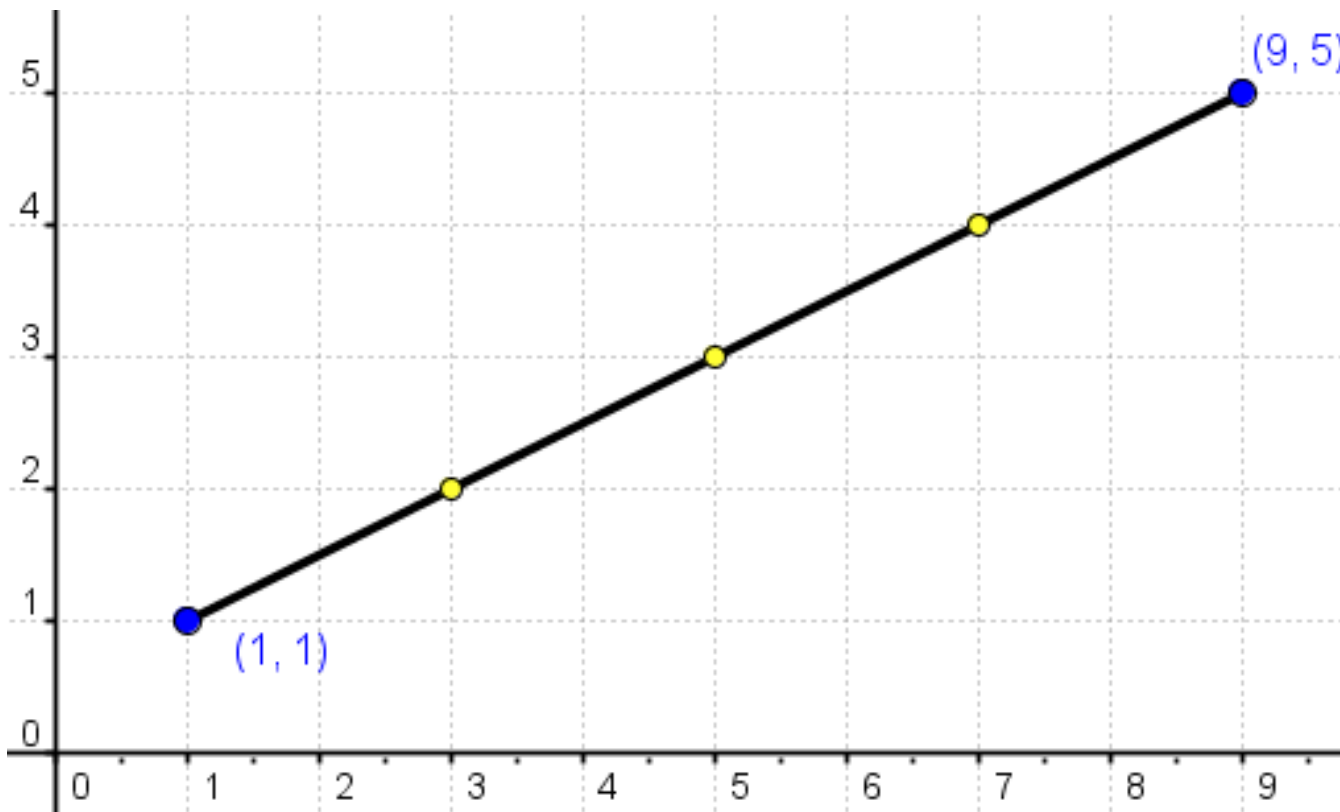
- Midpoint of a Line Segment
- Slope of a Line (or Segment or Ray)
- Quick Review:
 - Angle Relationships (4-1) & Properties of Parallel Lines (4-2)

- **Assignment**

- **Lesson 4.3:** 1-37 ODD, 38, 39
- **Lesson 4.8 (Recommended):** 1-6, 11-12, 15-20, 25-29

Midpoint and Slope

- **What is a midpoint? How do you find it for a segment?**

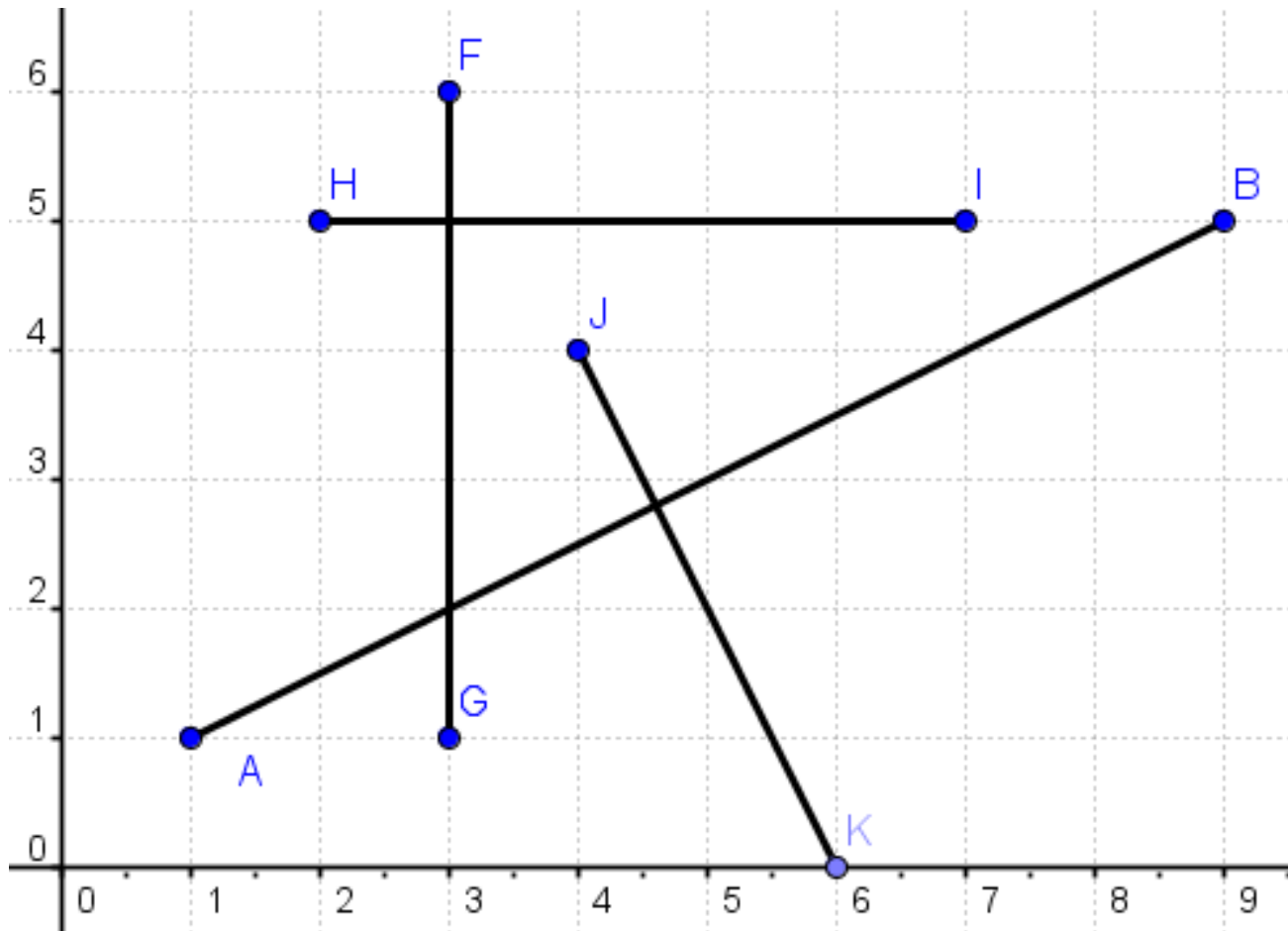


For Slope: Does it matter which points are used or which direction you move?

- **What is the slope of a line/segment? How do you find it?**

Midpoint and Slope (Vert./Hor.)

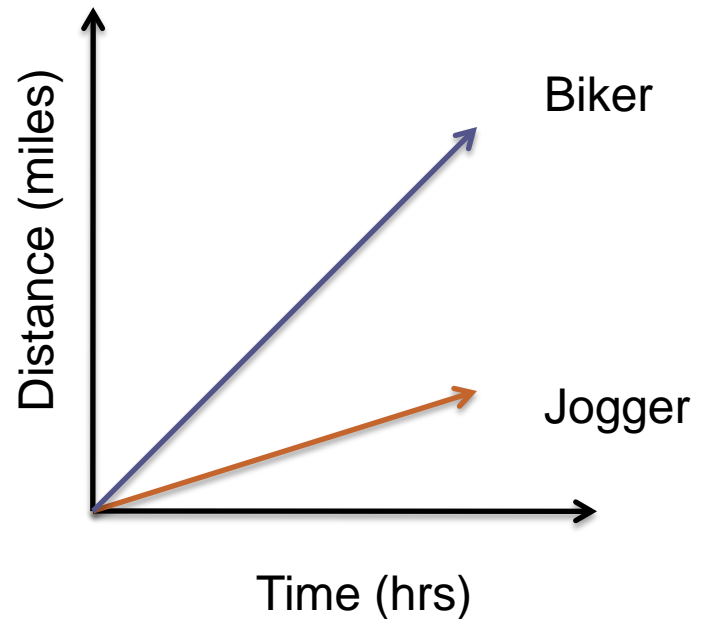
- Find the midpoint and slope of the line segments



What about slope of vertical and horizontal lines?

Slope = Incline/Steepness (Rate)

- **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 $x_1 \neq x_2$ is:

$$m = \frac{\textit{rise}}{\textit{run}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Applied Math – Daily Summary

- **Announcements**

- Retest on Chapter 3 (Metric System) Tomorrow

- **Class Objectives**

- Quiz Review
- Metric Review Worksheet

- **Assignment**

- Metric Review Worksheet – Practice this Time!