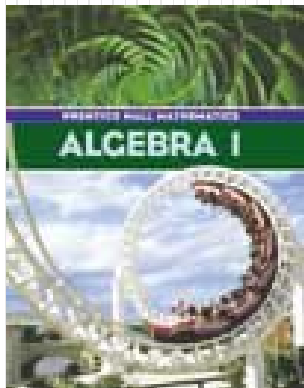
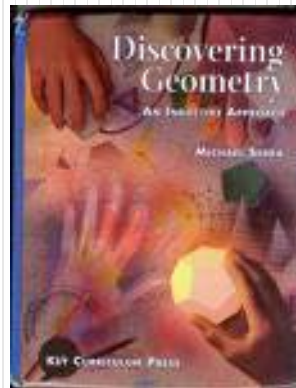


# Mr. Northcutt's Math Classes Class Presentation

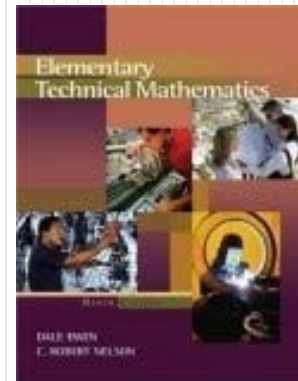
March 18, 2009 (123)



Math 1



Math 2



Applied Math

# Math 1 – Daily Summary



- **Announcements**

- Schedule updated thru end of 3<sup>rd</sup> Quarter (2 WEEKS Left!)
  - Take care of missed tests and assignments...
- Substitute Thursday and Friday
  - Solve by Graphing Thursday; Review Solving Equations on Friday

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

- Review Chapter 6 Test Results
- Systems of Equations - Solving by Graphing
  - Base Case (in Slope-Intercept Form)
  - Not in Slope-Intercept Form

- **Assignment**

- **Worksheet:** Solving by Graphing

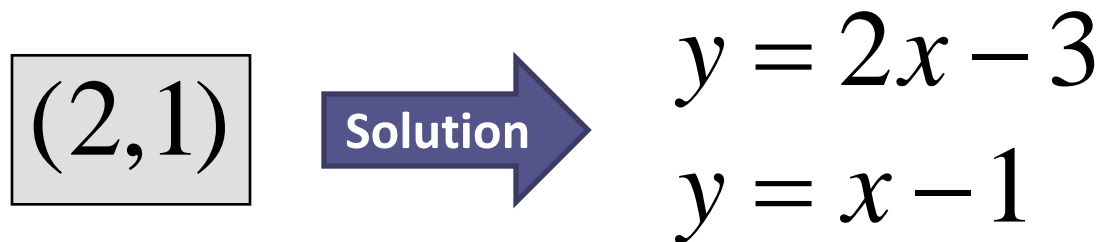


# System of Equations

- A **System** of Linear Equations is two or more equations together...

$$\left. \begin{array}{l} y = 2x - 3 \\ y = x - 1 \end{array} \right\} \begin{array}{l} \text{Equations of Lines} \\ \text{(Slope-Intercept Form)} \end{array}$$

- A **Solution** of the System is any ordered pair (x,y) that satisfies both equations at the same time.



# Math 2 – Daily Summary



- **Announcements**

- Schedule updated thru end of 3<sup>rd</sup> Quarter (2 WEEKS Left!)
  - Take care of missed tests and assignments...
- Substitute Thursday and Friday
  - Lesson 11.1 Thursday; Lesson 11.2 Friday (use Textbook)

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

- Review Quiz Results
- Discuss Substitute Expectations and Approach
  - Read Lesson then Complete Assignment (all information in text)!
  - **All assigned work due at the end of class - hand-in for credit!**

- **Assignment (for Thursday and Friday)**

- **TH:** Lesson 11.1: 2-27; **FR:** Lesson 11.2: 1-8, 14-34

# Applied Math – Daily Summary



- **Announcements**

- Schedule updated thru end of 3<sup>rd</sup> Quarter (2 WEEKS Left!)
- Substitute Thursday and Friday - Skills Review
  - Th.: Solving Equations; Fr.: Polynomials

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

- Slope of a Line (“Rise over Run”)
  - Calculate given 2 ordered pair (points)
  - Calculate given the graph of a line
  - Calculate given the equation of a line
  - Slopes of Parallel and Perpendicular Lines

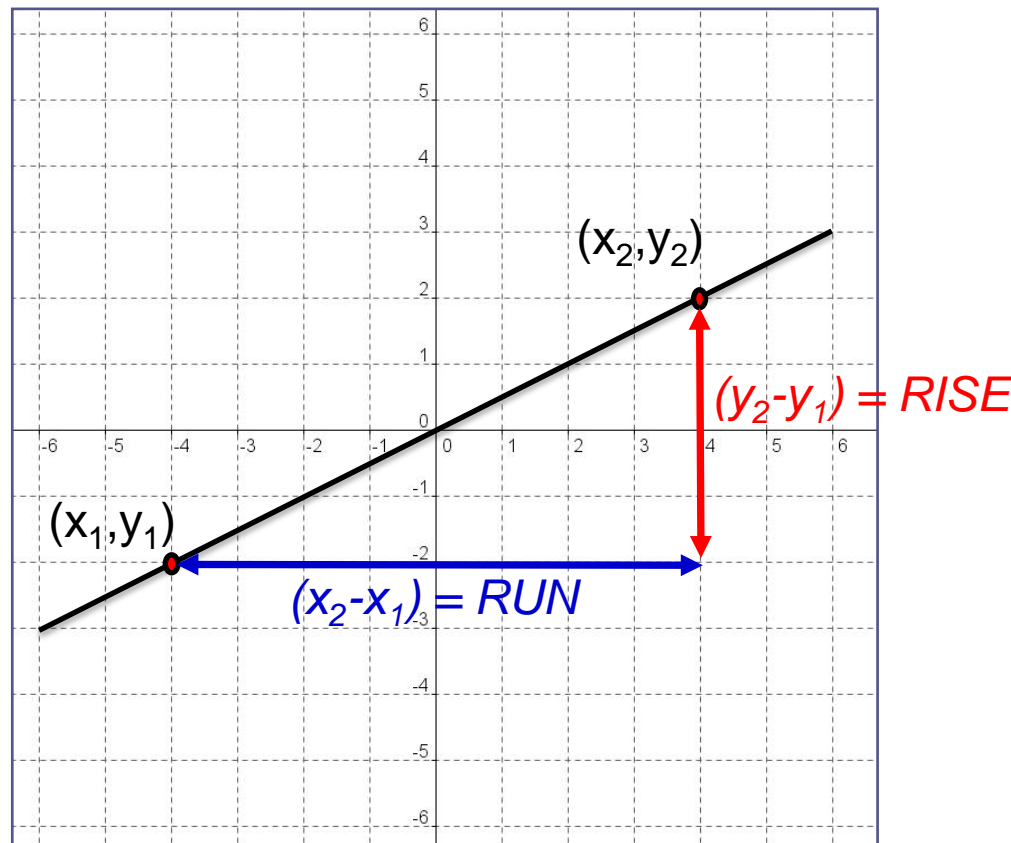
- **Assignment**

- **8.3: 3-39 by 3**



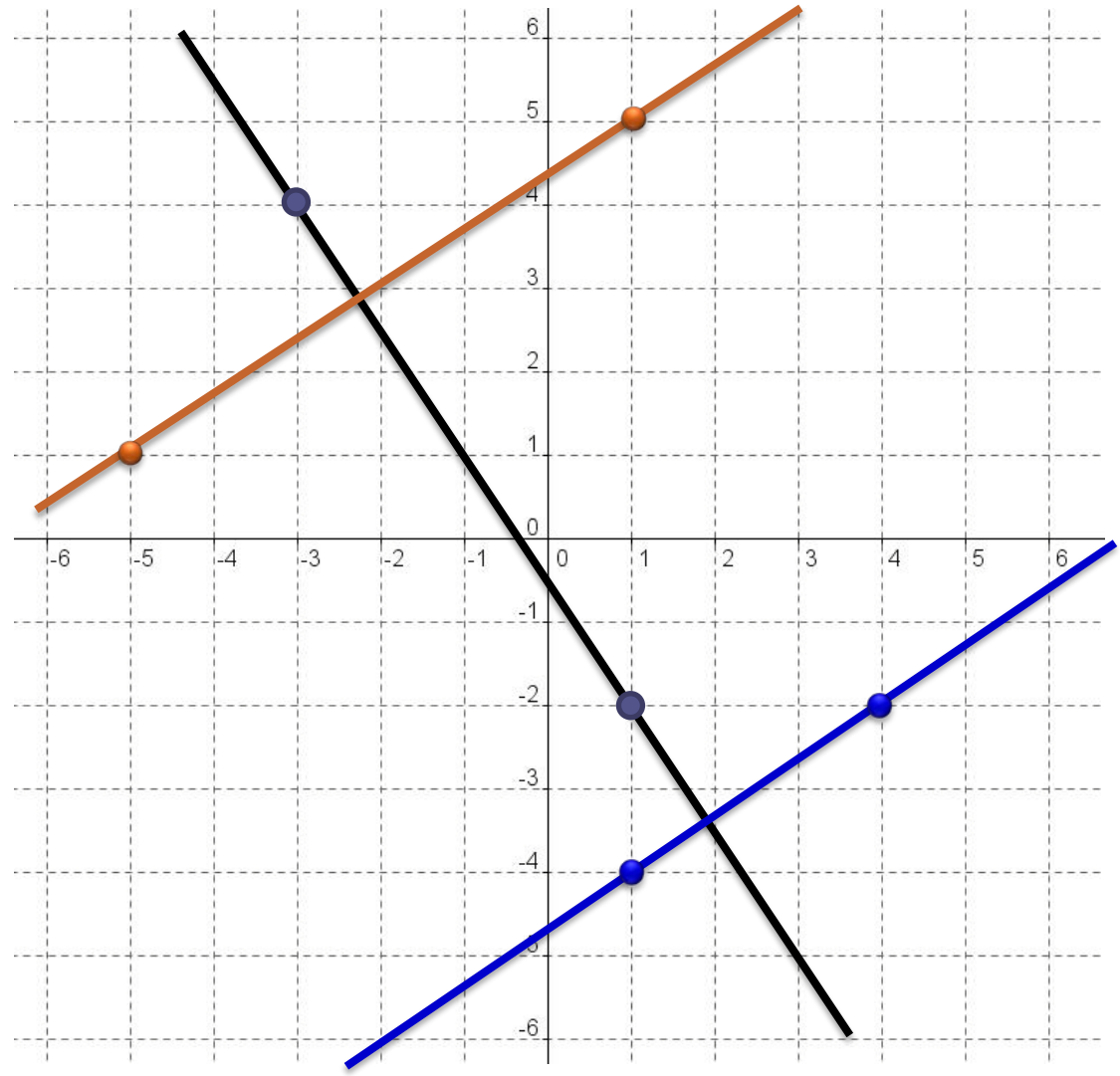
# Definition of Slope

$$\text{Slope} = \frac{\text{vertical change}}{\text{horizontal change}} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1} = m$$





# Example: Find Slope from Graph



- Things to Notice:**
- Positive vs. Negative
  - Parallel
  - Perpendicular

$$m_1 = m_2$$

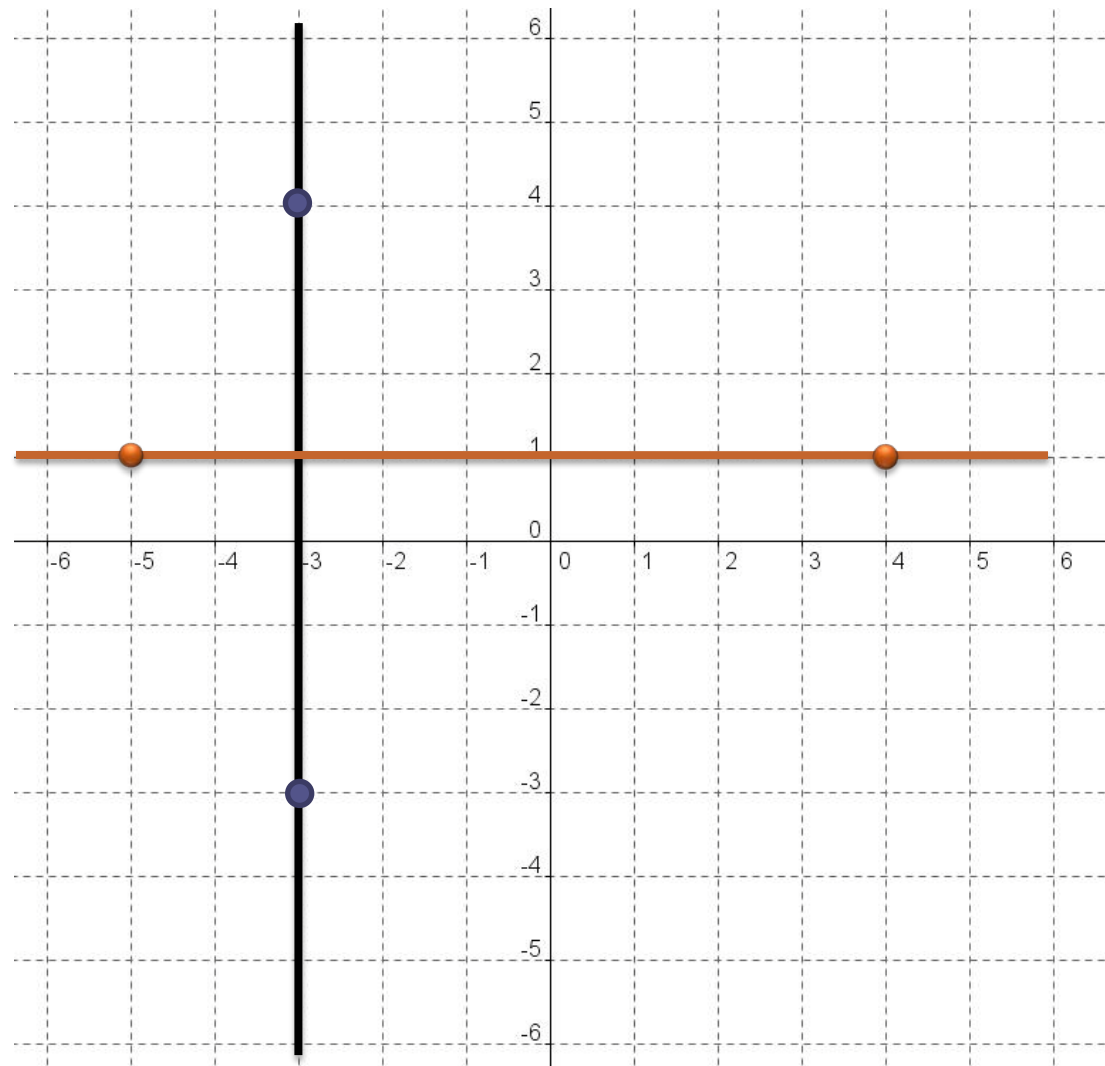
$$m_1 \cdot m_3 = -1$$

$$m_2 \cdot m_3 = -1$$



# Example: 0 vs. Undefined Slope

Calculate Slope as “Rise over Run” ...what happens?







# Example: Find Slope from Equation

- If you solve for “y” (dependent variable), the slope of the line is the coefficient of “x” (independent variable).
- Find Slope:

$$y = 2x - 4$$

$$x + 2y = -8$$

- What is the relationship between the lines?