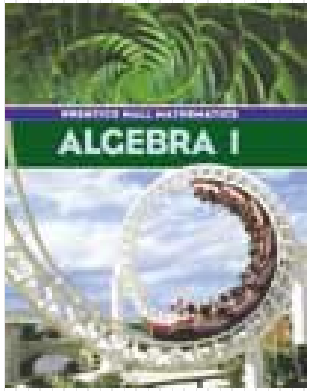
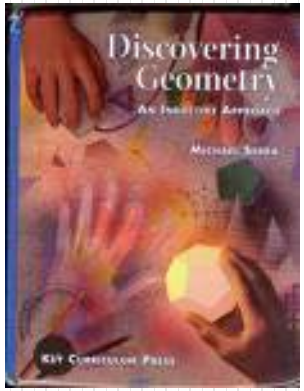
Mr. Northcutt's Math Classes
Class Presentation

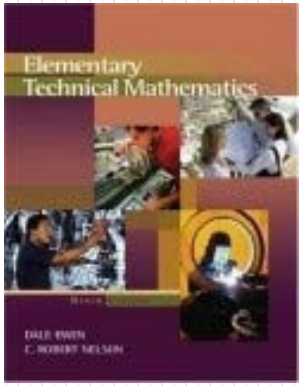
February 25, 2009 (108)



Math 1



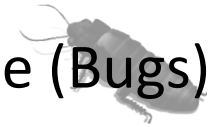
Math 2



Applied Math

Math 1 – Daily Summary

- **Announcements**
  - **QUIZ**: Sections 6.1 thru 6.3 on Friday
- **Class Objectives – *What you should learn today*!**
  - Graph → Slope-Intercept Form of Equation
  - Slope-Intercept Form of Equation → Graph
- **Assignment**
  - **Online**: Slope-Intercept Game (Bugs) - In Class!
  - **Worksheet**: Slope-Intercept Graphing

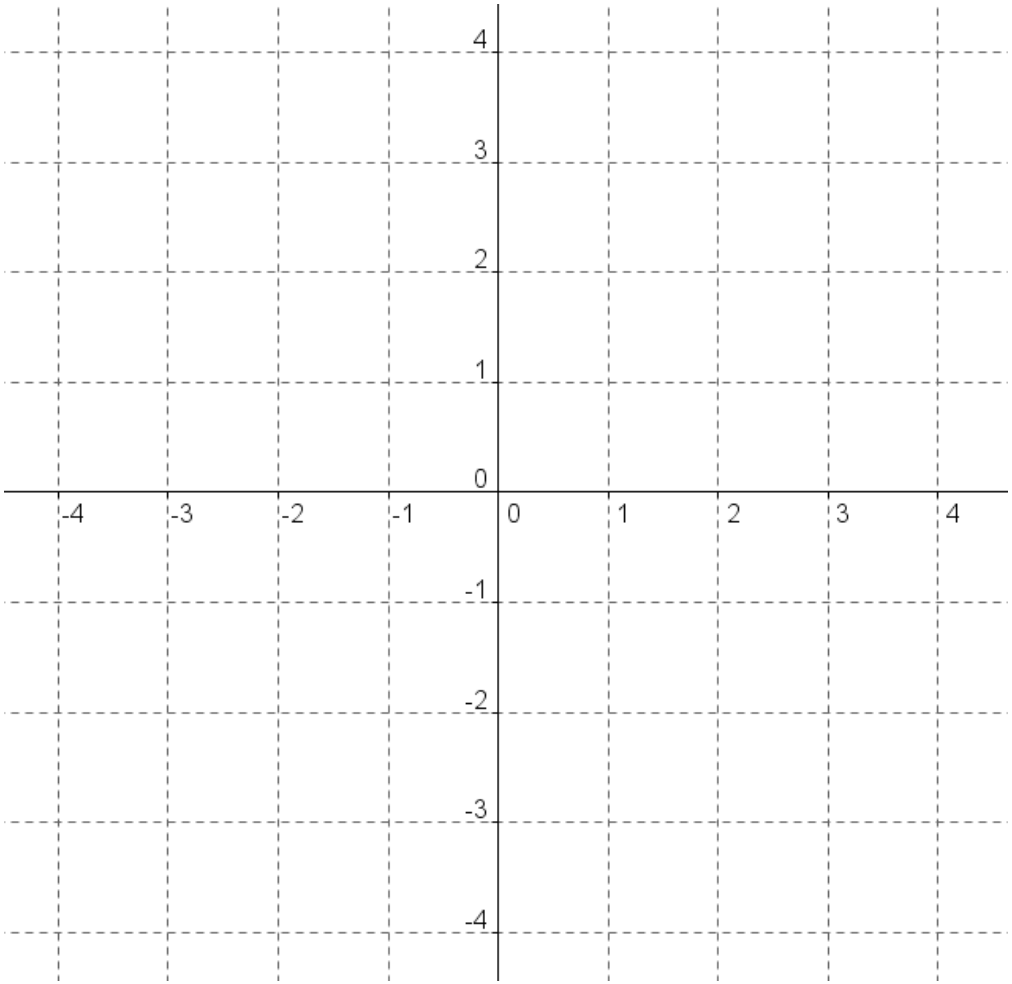


Slope-Intercept Form $y = mx + b$

- **Identify Slope (m) and y-intercept (b), then graph.**

$$y = -\frac{2}{3}x - 1$$

$$2x + 3y = 6$$



Standard Form

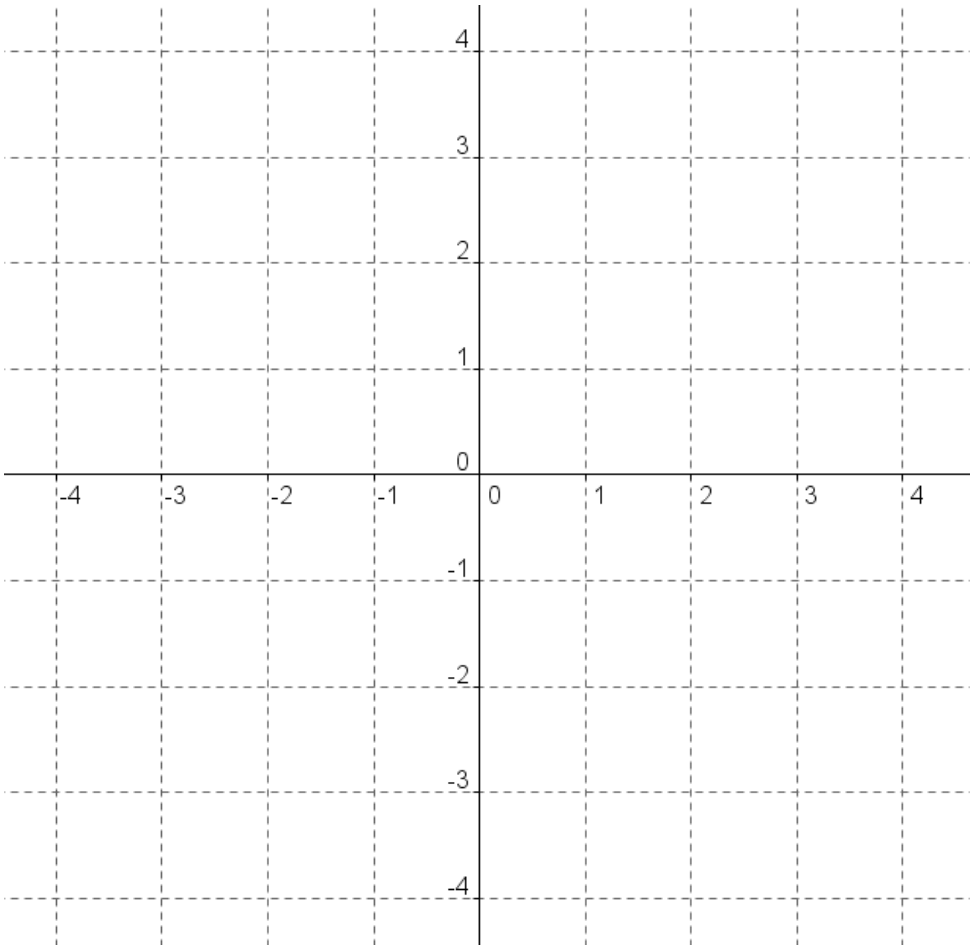
- **The Standard Form of a Linear Equation is:**

$$Ax + By = C$$

- **Examples:**

$$3x + 4y = 8$$

$$2x - 3y = 12$$



GRAPH USING:
1. **Slope-Intercept Form**
2. **x- & y-intercepts**

Math 2 – Daily Summary

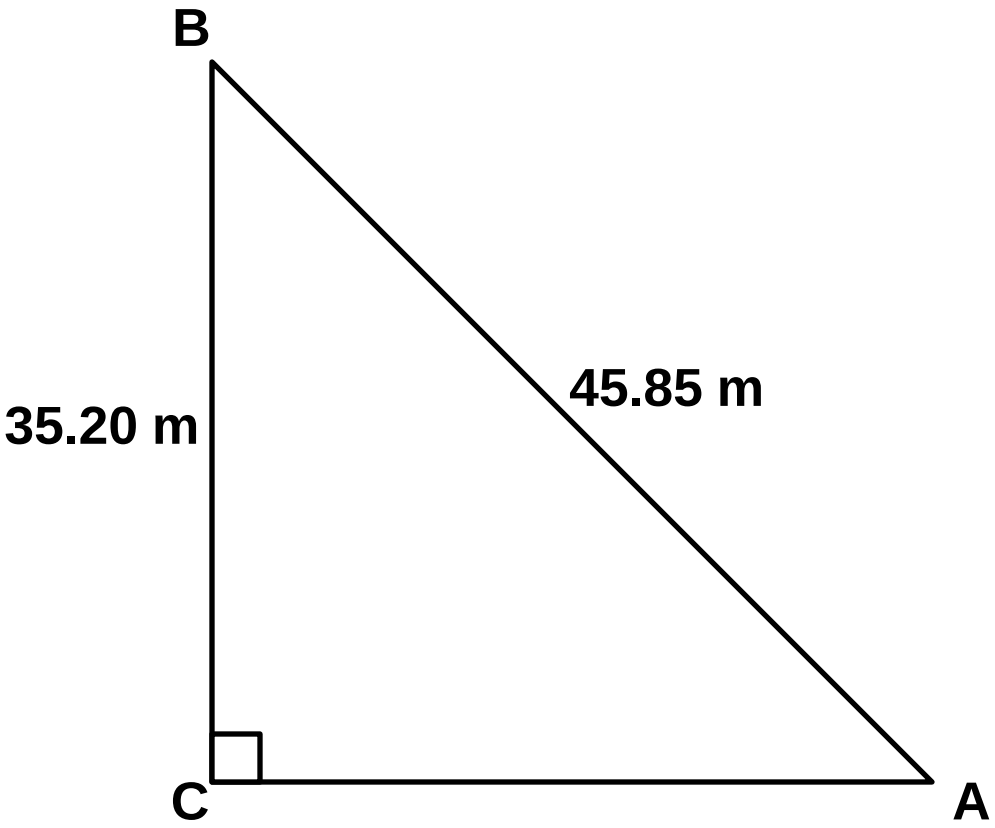
- **Announcements**
  - **QUIZ**: Lessons 10.1 thru 10.7 on Friday
- **Class Objectives – *What you should learn today*!**
  - Ability to use the **Pythagorean Theorem** and **Special Right Triangles** (45^o-45^o and 30^o-60^o) to solve applied problems.
- **Assignment**
  - **Lesson 10.6**: 1-8, 16, 17

Applied Math – Daily Summary

- **Announcements**
  - **QUIZ**: Sections 13.1 thru 13.3 on Friday
- **Class Objectives – *What you should learn today*!**
  - Use Trigonometric Ratios to find the interior angles of a Triangle given its side measurements.
- **Assignment**
  - **Exercises 13.2**: 2-24 EVEN (all answers to **3 significant digits**)

Example

- **Find acute angles A and B.**



Trigonometric Ratios (Right Triangles)

- **Sine, Cosine & Tangent of an angle.**

$$\sin\angle x = \frac{Opposite}{Hypotenuse}$$

$$\cos\angle x = \frac{Adjacent}{Hypotenuse}$$

$$\tan\angle x = \frac{Opposite}{Adjacent}$$

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