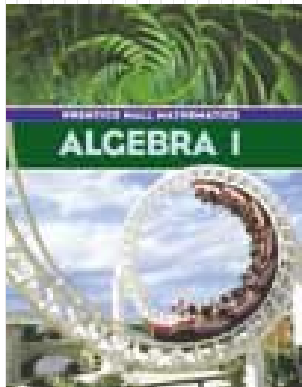
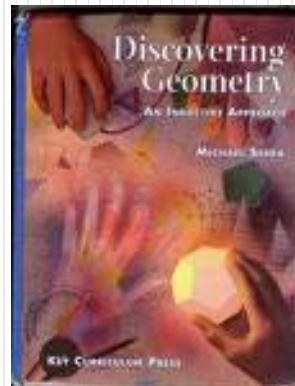


# Mr. Northcutt's Math Classes Class Presentation

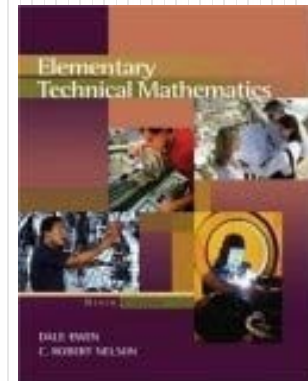
April 8, 2009 (133)



Math 1



Math 2



Applied Math



# Math 1 – Daily Summary

- **Announcements**

- I have Bus Duty - will not be in room until 3:45!
- **QUIZ: Sections 7.1 thru 7.4 Tomorrow!**

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

- Application of Systems of Equations (“Word Problems”)

- **Assignment**

- **Worksheet:** Applications of Systems of Equations II

**See example problems  
from worksheet!**



# Math 2 – Daily Summary

- **Announcements**

- I have Bus Duty - will not be in room until 3:45!
- **TEST: Chapter 11 (Volume) on Monday (4/13).**

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

- Calculating the Surface Area of a Sphere

- **Assignment**

- **Lesson 11.8: 1-7, 9**

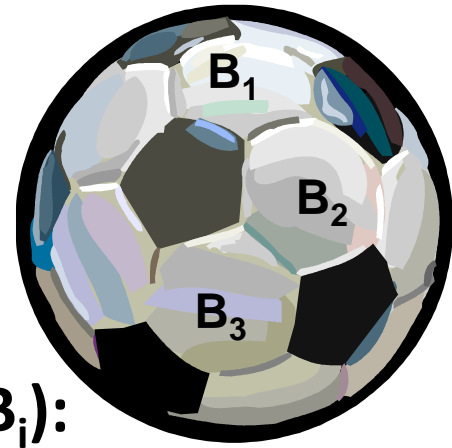


# Imagine a Soccer Ball...

- But with a 1000 “pieces” on the surface...
- Let each piece have area  $B_i$ ...surface area is:

$$S = B_1 + B_2 + B_3 + \dots + B_{1000}$$

- Volume of sphere is sum of pyramids (base  $B_i$ ):



$$V = \frac{1}{3}RB_1 + \frac{1}{3}RB_2 + \frac{1}{3}RB_3 + \dots + \frac{1}{3}RB_{1000} = \frac{4}{3}\pi R^3$$

$$= \frac{1}{3}R(B_1 + B_2 + \dots B_{1000})$$

$$\frac{4}{3}\pi R^3 = \frac{1}{3}RS \quad \rightarrow$$

$$S = 4\pi R^2$$



# Surface Area of a Sphere

- **Sphere Surface Area Conjecture**

- The surface area ( $S$ ) of a sphere with radius  $r$  is given by:

$$S = 4\pi r^2$$



# Applied Math – Daily Summary

- **Announcements**

- I have Bus Duty - will not be in room until 3:45!
- **TEST: Chapter 9 (Systems of Equations) on Wednesday (4/15 - next week).**

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

- Solving Systems of Equations by Elimination

- **Assignment**

- **Worksheet:** Solving Systems by Elimination

**See example problems  
from worksheet!**