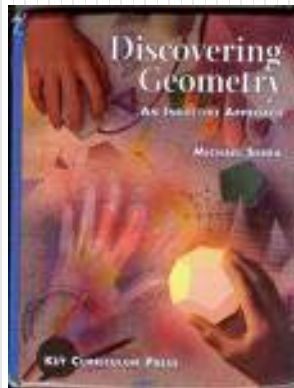


Mr. Northcutt's Math Classes Class Presentation

January 15, 2009 (83)



Math 1



Math 2



Applied Math



Math 1 – Daily Summary

- **Announcements**

- **Chapter 9 Test Tomorrow**
- **Next Week: Semester Final on Thursday & Proficiency Test Friday**

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

- **Factoring Trinomials (continued)**
 - Coefficient of x^2 not 1

- **Assignment**

- **Section 9-6: 2-26 EVEN**



Review from Previous Lesson

- Factor the following trinomial...

$$t^2 - 10t - 75$$

$$(\quad) \cdot (\quad)$$



The Final Challenge: ax^2+bx+c

- **What has to be true about this trinomial's factors?**

$$6n^2 + 23x + 7$$

$$(\quad) \cdot (\quad)$$



The Final Challenge: ax^2+bx+c

- **What has to be true about this trinomial's factors?**

$$7x^2 - 26x - 8$$

$$(\quad) \cdot (\quad)$$



The Final Challenge: ax^2+bx+c

- **What has to be true about this trinomial's factors?**

Important: This will make your life much easier!!!

$$20x^2 + 80x + 35$$

$$(\quad) \cdot (\quad)$$



Math 2 – Daily Summary

- **Announcements**

- **Chapter 7 Test Tomorrow!**
- **Next Week: Semester Final on Wednesday & Proficiency Test Thursday**

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

- **Review of Chapter 7**
 - Circle Terminology and Symbols (segments vs. lines, minor arc vs. other)
 - Properties of Chords & Tangents
 - Properties of Arcs and Angles
 - Circumference of a Circle & Arc Length

- **Assignment**

- **Lesson 7.8:** 1-11, 17-31, 34, 35 (Proof), 36, 37
- **Chapter 7 - Sample Test**

Applied Math – Daily Summary



- **Announcements**

- Chapter 12 Test on **Monday!**
- Semester Final on Thursday (next week)

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

- Properties of Cylinders
 - Definition of a Cylinder
 - Calculation of Surface Area (Lateral & Total)
 - Calculation of Volume

- **Assignment**

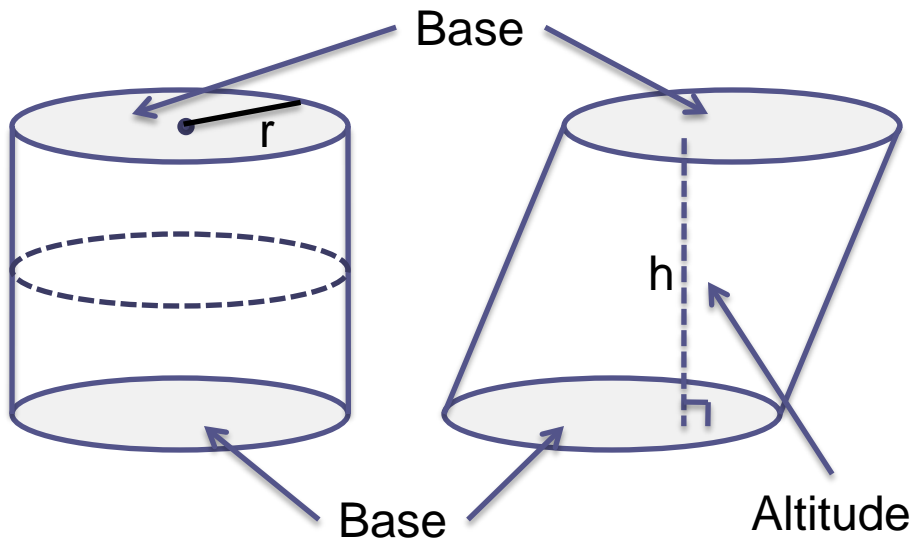
- **Section 12.8:** 2, 6, 8, 12, 14, 16, 24, 25, 26



Cylinders

- **Circular Cylinder**

- A solid with a curved lateral surface and circles as parallel bases.



Lateral Surface Area

$$A = C \cdot h = 2\pi r \cdot h$$

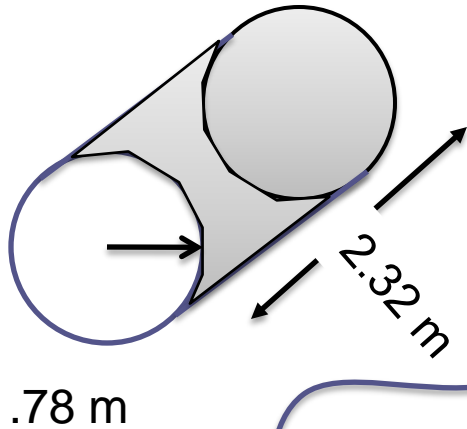
Volume

$$V = \pi r^2 h$$



Example

- Find the **TOTAL** surface area of the right circular cylinder.



$$C = 2\pi \cdot r = 2\pi \cdot 1.78$$
$$= 11.2m$$

$$A_{lateral} = C \cdot h = 11.2(2.32)$$
$$= 26m^2$$

$$A_{total} = A_{lateral} + A_{bases}$$
$$= 26 + 19.9$$
$$= 45.9m^2$$

$$A_{bases} = 2 \cdot A_{base} = 2 \cdot \pi r^2$$
$$= 2 \cdot \pi \cdot (1.78)^2$$
$$= 19.9m^2$$