Name:

Date:

Lesson 10.1.5 Homework

* **10-65.** Find the volume of a sphere with a radius of 620,000 miles.  Write your answer using scientific notation.
* **10-66.** Find the volume of the cone.
* **10-67.**Graph the points (0, 2), (6, 2), (7, 4), (1, 4) and connect the points in order to create a parallelogram.  What is the perimeter of the parallelogram?  Is the perimeter a rational or irrational number?  How do you know?

* **10-68.**Simplify each of the following expressions*.*
	1. (5x3)2
	2. 
	3. 2m3n2· 3mn4
*
* **10-69.** First decide if the triangles below are similar.  Then, if they are similar, use the information in each diagram to solve for  x.
	1. 
	2. 

   Careful!

* **10-70.**The label of the Aloha Pineapple Juice can is 7 inches high and has an area of 140 square inches.  What is the diameter of the can?

* **10-71.** Sketch an example of a graph that meets the description below.
	1. non-linear and decreasing
	2. linear and increasing

