Name:

Date:

Lesson 10.1.3 Homework

* **10-41.**Find the volume of the cone shown in problem 10-37.
* **10-42.**The pyramid at right has a volume of 312 cubic feet.  If the prism next to it has the same base area and height, what is its volume?  Explain how you know.

* **10-43.**Which table or tables below show a proportional relationship?  Justify your answers.
	1. 
	2. 
	3. 

**10-44.**Find the volume of the prism at right.  All angles are right angles.

* **10-45.**Graph the points (−2, 4), (2, 1), (−2, −2) and connect the points to create a triangle.
	1. What is the perimeter of the triangle?
	2. Translate the triangle up 2 and right 3.  What are the new coordinates?
	3. What is the perimeter of the triangle after its translation in part (b)?
* **10-46.**
	1. Make a table for the rule  that includes  x‑values from −1 to 10.  What happened?
	2. Graph the rule on graph paper.
	3. What kind of growth does the rule show?  How do you know?
	4. Is this relationship a function?  How do you know?