Name:

Date:

Lesson 3.1.6 Homework

* **3-56.** Complete a table for the rule y = x2 + 2.  Then plot and connect the points on a graph.  Be sure to label the axes and include the scale.  Use negative and positive values for  x, as well as a value of 0.
* **3-57.** Complete a table for the rule y = −x + 3.  Then plot and connect the points on a graph.  Be sure to label the axes and include the scale.  Use negative and positive values for  x, as well as a value of 0.



* **3-58.**  Draw Figure 0 and Figure 4 for the pattern below.  Describe Figure 100 in detail.



* **3-59.** Write an expression that represents the perimeter of the shape built with algebra tiles at right.  Then find the perimeter if x = 3 units and y = 7 units.

* **3-60.** Simplify the following expressions by combining like terms.
	1. y + 2x − 3+ 4x 2 + 3x − 5y
	2. 2x − 6x 2 + 9 − 1 − x − 3x
	3. 2y 2 + 30x − 5y 2 + 4x − 4y – y
	4. −10 + 3xy − 3xy + y 2 +10 − y 2