Name:

Date:

Lesson 3.2.3 Homework

* **3-94.** For the following equations, solve for x.  Check your solution, if possible.  Record your work.
	1. 3x − 7 = 3x + 1
	2. −2x − 5 = −4x + 2
	3. 2 + 3x = x + 2 + 2x
	4. −(x − 2) = x + 2
*

**3-95.** Evaluate the expressions below for the given values.

* 1. 30 − 2x  for  x = −6
	2. x2 + 2x  for  x = − 3
	3. $\frac{1}{2}$x + 9   for  x = −6
	4.   for  k = 9

**3-96.** The length of a rectangle is three centimeters more than twice the width.  The perimeter is 78 centimeters.  Define a variable and write and solve an equation to find out how long and how wide the rectangle is.

**3-97.** For the rule y = 4 − x2, calculate the y-values that complete the table below.  The first value is given for you.



* 1. Create an x-axis and a y-axis and label your units.  Plot and connect the points on your graph, and then label your graph with its rule.
	2. What does your graph look like?

**3-98.** Simplify each expression.

* 1. 
	2. 
	3. 
	4. 