Name _____

1-4A Lesson Master
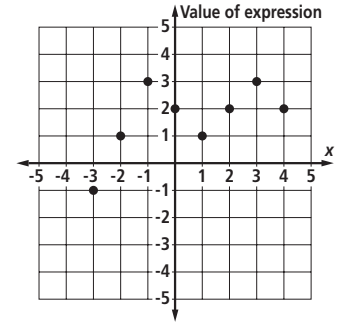
VOCABULARY

1. Express the set of all real numbers larger than 2 in set builder notation. _____

2. Express the set of integers larger than –3 and smaller than or equal to 4 in roster notation. _____

REPRESENTATIONS Objectives J, K, L

In 3–6, use the graph at the right. The graph represents values of an expression.

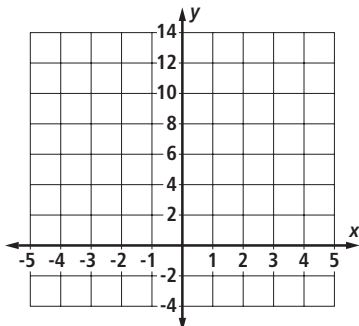3. Give the coordinates of three points on the graph.

   _____

4. What is the value of the expression when x is 4? _____

5. For what value(s) of x is the value of the expression equal to 1? _____

6. For what value(s) of x is the value of the expression also equal to x? _____

7. Xander is 3 years younger than his sister Yasmin. Let x = Xander's age and y = Yasmin's age. Fill in the chart with possible ages for the siblings.

   Express Yasmin's age using x.

   _____

Xander, x	Yasmin, y	Ordered Pair (x, y)
5		
6		
7		
8		
9		
10		

8. Make a table and scatterplot for $x^2 - 3$ when $x = -1, 2, 3,$ and 4.

x	$x^2 - 3$