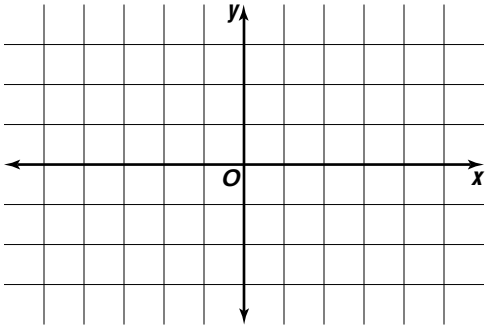
NAME _____ DATE _____ PERIOD _____

4

Chapter Review

Make a Map

See if you and a parent can find Captain Graphsalot's fleet of ships. Use each clue to graph points that show the locations of his ships. Three or more points in a row indicate the location of a single ship.



Clue 1: Graph {(0, 1), (0, 3), (5, 1)}. State the domain and range of this relation.

Clue 2: Graph {(5, 0), (4, −2), (3, −2)}. State the inverse of the relation.

Clue 3: Solve $y - x = 1$ for the domain {−2, −1, 2}. Plot the points in your graph.

Clue 4: Determine whether each of the following relations is a function. If the relation is a function, graph the given points. If it is not a function, do not graph it.

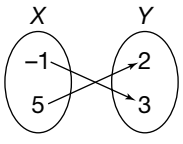
a.

x	*y*
0	1
0	−1
4	2

b.

x	*y*
−3	−2
2	−2
1	3

c.



Clue 5: Given $g(x) = x^2 - 5$, find $g(-3)$. This is the number of ships that you should have found in the fleet.

Answers are located in the Answer Key.