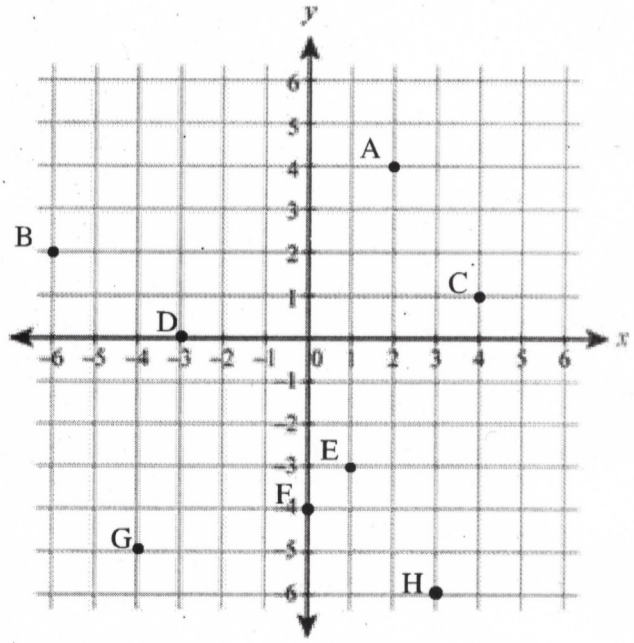
Lesson 5.1 and 5.2 Homework

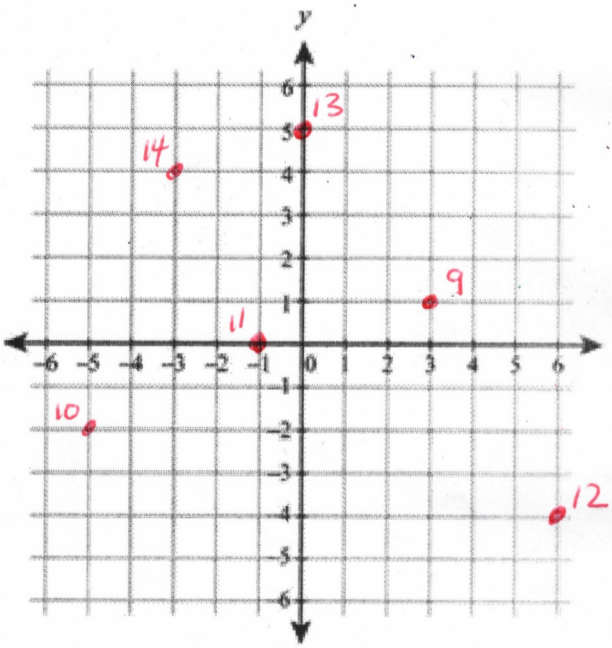
Write the coordinates of the following points.



1. A (2,4)
2. B (-6,2)
3. C (4,1)
4. D (-3,0)
5. E (1,-3)
6. F (0,-4)
7. G (-4,-5)
8. H (3,-6)

Locate the points on the graph.

a. Write the number of the point by the dot.
b. By the coordinates below, indicate which quadrant the point is in. If it is on an axis, state which axis it is on.



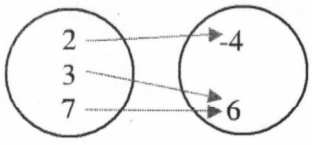
9. (3, 1) I
10. (-5, -2) III
11. (-1, 0) x-axis
12. (6, -4) IV
13. (0, 5) y-axis
14. (-3, 4) II

List the domain and range of each function. List the numbers from smallest to largest.

15. (-4, 1), (3, 0), (5, 7), (10, 8)
16. (2, -4), (1, 6), (4, -9), (5, 11), (3, 8)
17.

x	y
-3	7
0	4
1	16
4	-1

18.



15. Domain: {-4, 3, 5, 10}
Range: {0, 1, 7, 8}

16. Domain: {1, 2, 3, 4, 5}
Range: {-9, -4, 6, 8, 11}

17. Domain: {-3, 0, 1, 4}
Range: {-1, 4, 7, 16}

18. Domain: {2, 3, 7}
Range: {-4, 6}

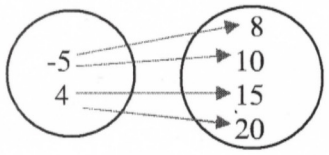
19. Look up the definition of a function in the book. Write the definition of a function.

Function – a relation in which each x-coordinate is paired with one and only one y-coordinate.

Indicate whether the relation is a function. Just write YES or NO.

20. (4, 2), (5, 5), (6, 2), (7, -1), (8, 2) YES

21.



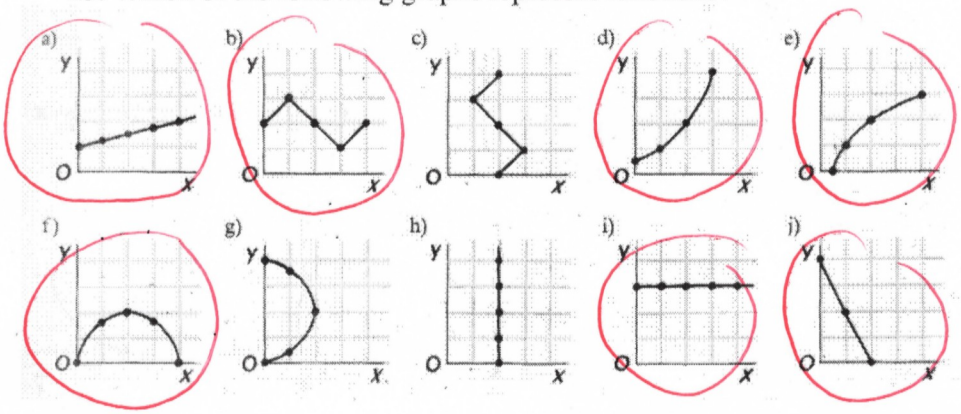
NO

22.

x	y
-10	-2
-5	3
0	-2
5	3

YES

23. Which of the following graphs represent functions?



24. On a sheet of graph paper, plot the following points and connect them with line segments in the order they are listed (working down each column). Start a new portion of the graph after the word *end*. Graph all the points on the same graph.