

#6

Name _____ Date _____

Algebra: Use Functions and Graphs

Find values of y to complete each function table.
Then graph each equation on grid paper.

1. $y = x + 3$

x	y
-4	
-2	
0	
+2	

2. $y = x - 5$

x	y
-2	
-1	
0	
+1	

3. $y = 2x - 1$

x	y
0	
+1	
+2	
+3	

4. $y = 4x + 1$

x	y
0	
+2	
+4	
+6	

5. $y = 7x$

x	y
0	
+1	
+2	
+3	

6. $y = 6 + x$

x	y
-3	
-2	
-1	
0	

7. $y = 2x - 5$

x	y
0	
+1	
+2	
+3	

8. $y = 8 - x$

x	y
+1	
+2	
+4	
+6	

Find three ordered pairs in the first quadrant for each function. Then use them to graph the function.

9. $y = x - 6$ _____

10. $y = x + 2$ _____

11. $y = x + 5$ _____

12. $y = 6x$ _____

13. $y = 3x$ _____

14. $y = 5x$ _____

15. $y = 3x - 2$ _____

16. $y = 4x + 3$ _____

17. $y = 5x - 1$ _____

Test Prep

18. Graph $y = x$ and $y = 8x$ on the same coordinate plane. How are the graphs alike? How are they different?

19. Find the ordered pair that is a solution for $y = 5x + 5$.

A (4, 20)

C (2, 5)

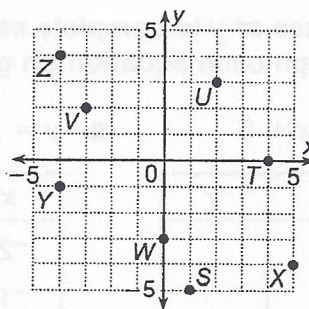
B (0, 10)

D (4, 25)

Name _____

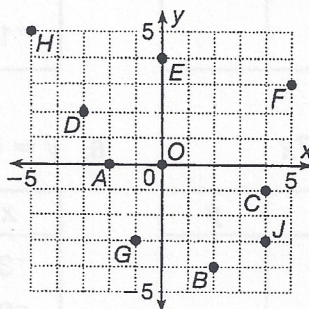
Find the coordinates of each point.

- 1. S _____
- 2. U _____
- 3. W _____
- 4. Y _____
- 5. T _____
- 6. V _____
- 7. X _____
- 8. Z _____



Name the point that has the given coordinates.

- 9. (2, -4) _____
- 10. (-3, 2) _____
- 11. (-2, 0) _____
- 12. (5, 3) _____
- 13. (-5, 5) _____
- 14. (0, 4) _____
- 15. (0, 0) _____
- 16. (-1, -3) _____
- 17. (4, -1) _____
- 18. (4, -3) _____



19. formula: $V = l \times w \times h$

$l = 2 \text{ cm}$
 $w = 4 \text{ cm}$
 $h = 3 \text{ cm}$

$V =$ _____

20. Complete the table.

$y = 2x + 3$		
x	y	(x,y)
-2		
-1	1	(-1,1)
0		
1		
2		
3		

21. Annie's truck went 184.8 miles on 12.5 gallons of fuel. How many miles can it go per gallon?

mpg = _____

22. Joyce decorated a tree in her yard with popcorn for birds to eat. On the first branch, she hung a string with 4 pieces of popcorn. On the second branch, she hung a string with 8 pieces of popcorn, and on the third branch a string with 16 pieces of popcorn. If she continued this pattern, how many pieces of popcorn would be on the string that she hung on the fifth branch?