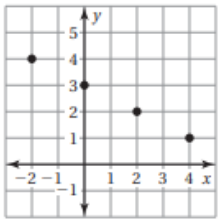
Functions Review Worksheet

Name: _____

Find the domain and range of the function.

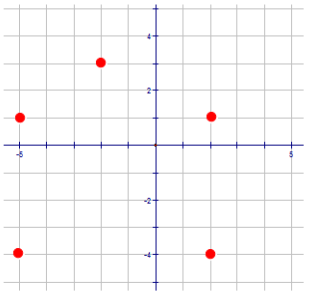
1.



Domain: _____

Range: _____

2.

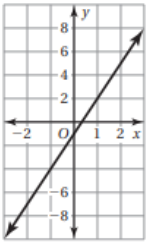


Domain: _____

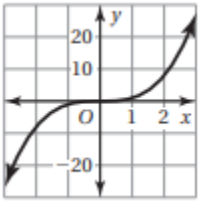
Range: _____

Tell whether the graph represents a LINEAR or NONLINEAR function.

3. _____

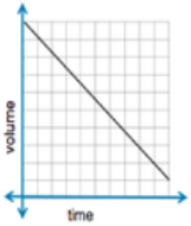


4. _____

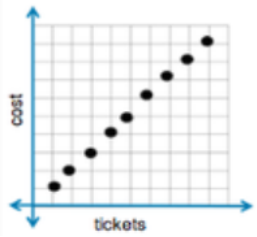


Tell whether the graph represents a DISCRETE or CONTINUOUS domain.

5. _____



6. _____



The total cost, y, of admission & x tickets for an amusement park are shown in the table. .

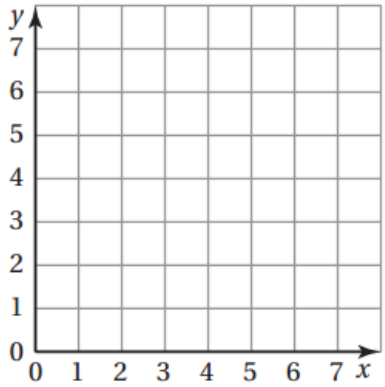
Tickets, x	0	1	2	3
Cost, y	3	4	5	6

7. Find the domain and range of the function.

D: _____ R: _____

Is the domain discrete or continuous?

8. Graph the function. **Don't forget to label the axes!**



9. Complete the input-output table for the function $y = 3x - 2$.

x	−1	0	1	2
y				

What are the domain and range?

D: _____ R: _____

Is the domain of the function DISCRETE or CONTINUOUS?

12. _____

Input Length, x (inches)	Output Area, y (square inches)
2	12
4	24
6	36

13_____

Input Shirts, x	Output Cost, y (dollars)
0	0
1	9.25
2	18.50

14. Circle the input that represents a function with a **CONTINUOUS** domain.

time spent on homework **OR** number of missing assignments

Tell whether the table or equation represents a LINEAR or NONLINEAR function.

15. _____

x	y
1	1
2	4
3	9
4	16

16. _____

x	y
-2	3
0	7
2	11
4	15

17. _____

$y = \frac{3}{4}x - 1$

18. _____

$y = 4x^2 + 2$

19. Who is travelling faster? How do you know?

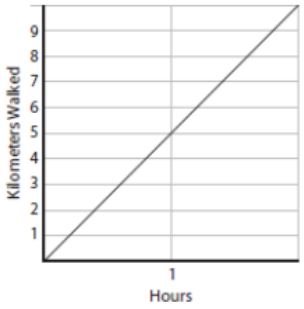
Below are representations of Tanner, Hunter & Casey's speed as they walk. How fast are each of them walking? Be sure to label your answer!!

Tanner:

x (hours)	y (km)
0	0
2	9
4	18
6	27

Hunter: $y = \frac{13}{4}x$

Casey:



Tanner: _____ Hunter: _____ Casey: _____

Who is walking the fastest? _____