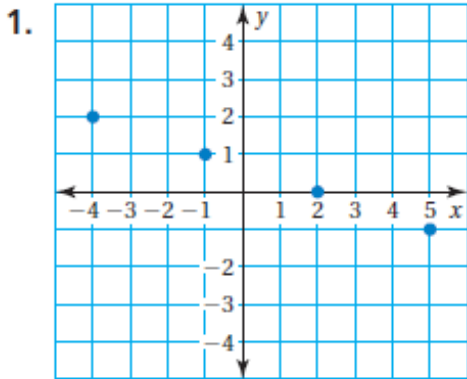


# 4.1-4.2 Review

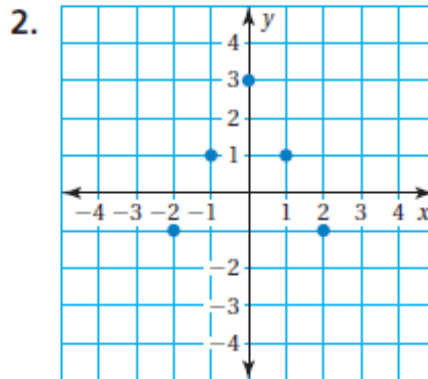
Name: \_\_\_\_\_

Find the domain and range of the function represented by the graph.



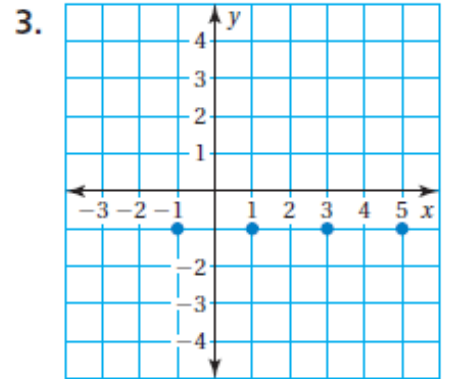
Domain: \_\_\_\_\_

Range: \_\_\_\_\_



Domain: \_\_\_\_\_

Range: \_\_\_\_\_



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Put the equation in function form. Then complete the input-output table for the function. Finally, find the domain and range of the function represented by the table.

4.  $y = 5x - 6$

$x$	0	1	2	3
$y$				

Function Form : \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

5.  $2x + y = 2$

$x$	-1	0	1	2
$y$				

Function Form : \_\_\_\_\_

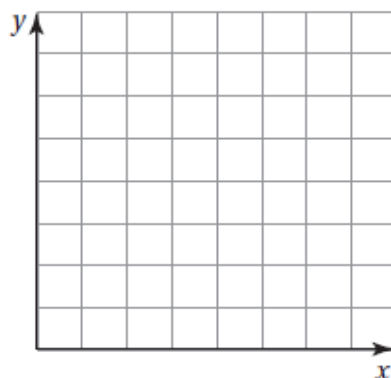
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Graph the function. Then circle whether the domain of the graph is discrete or continuous.

6. 

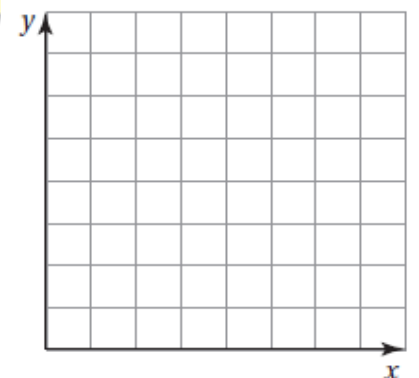
Rulers, $x$	Cost, $y$
0	0
1	1.5
2	3
3	4.5



Discrete  
or  
Continuous

7. 

Gallons, $x$	Miles Remaining, $y$
0	300
1	265
2	230
3	195



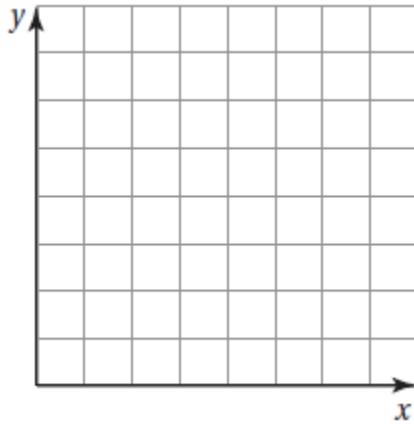
Discrete  
or  
Continuous

Graph the function. Then circle whether the domain of the graph is discrete or continuous?

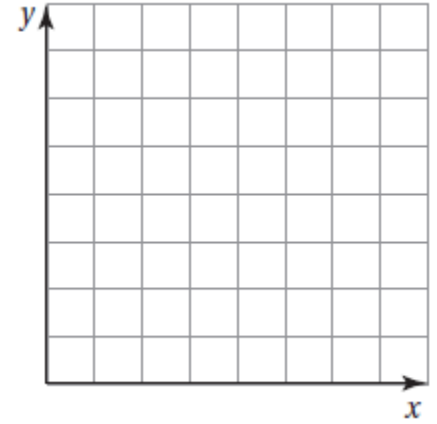
8. Minutes, $x$	0	10	20	30
Height, $y$	40	35	30	25

9. Relay Teams, $x$	2	4	6	8
Athletes, $y$	8	16	24	32

Discrete  
or  
Continuous

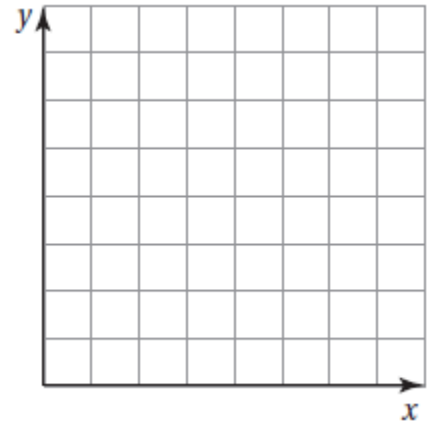


Discrete  
or  
Continuous



10. **VIDEO GAME** The function  $y = 30 - 3x$  represents the amount  $y$  (in dollars) of money you have renting  $x$  video games. Graph the function using domain of 0, 1, 2, 3, and 4. Is the domain of the discrete or continuous?

$x$					
$y$					



11. **WATER** Water accounts for about 60% of a person's body weight.

a. Write an equation in function form that represents the water weight  $y$  of a person that weighs  $x$  pounds.

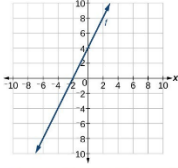
b. Make an input-output table for the function in part (a). Use the inputs 100, 120, 140, and 160.

$x$				
$y$				

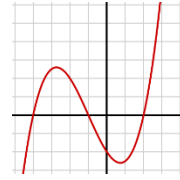
# 4.3-4.4 REVIEW

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

12. \_\_\_\_\_



13. \_\_\_\_\_



14. \_\_\_\_\_

x	0	2	4	6
y	0	2	8	18

15. \_\_\_\_\_

x	-2	-1	0	1	2
y	1	-2	-5	-8	-11

16. \_\_\_\_\_

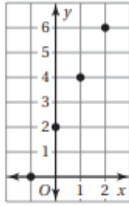
$$y = 3x^2 - 5$$

17. \_\_\_\_\_

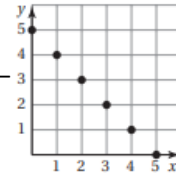
$$9x + 3y = 12$$

Use the graph or table to **WRITE A LINEAR FUNCTION** that relates  $y$  to  $x$ .

18. \_\_\_\_\_

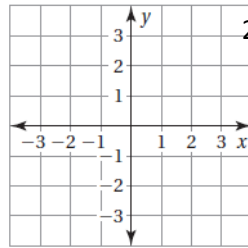


19. \_\_\_\_\_



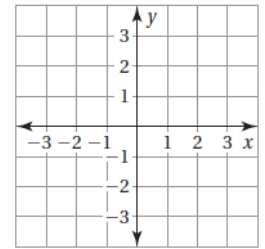
20. \_\_\_\_\_

x	-2	0	2	4
y	-1	-2	-3	-4

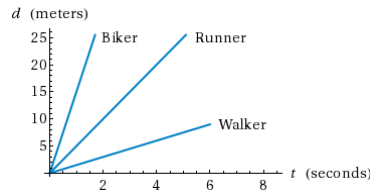


21. \_\_\_\_\_

x	-1	0	1
y	-1	1	3

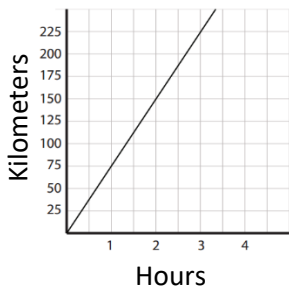


22. Who is traveling fastest? How do you know?



23. How fast is each person traveling? Be sure to label your answer!!

Layla:



Sadie:

Time (hr)	Distance (km)
2	300
4	600
6	900

Josie:

$$y = 92x$$

Layla: \_\_\_\_\_

Sadie: \_\_\_\_\_

Josie: \_\_\_\_\_

Who is driving the fastest? \_\_\_\_\_