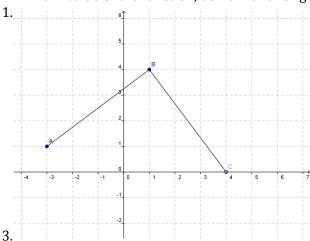
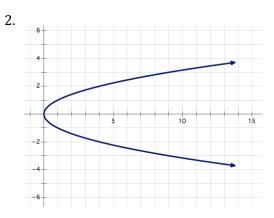
A Practice Understanding Task

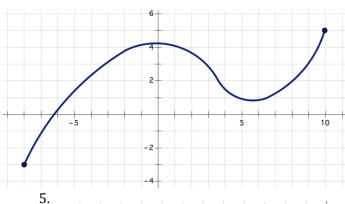
For each graph, sketch it in your notebook determine if the relationship represents a function, and if so, state the key features of the function (intervals where the function is increasing or decreasing, the maximum or minimum value of the function, domain and range, x and y intercepts, etc.)

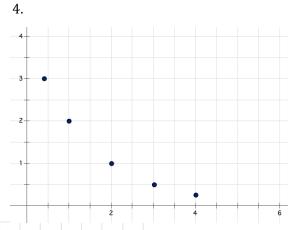


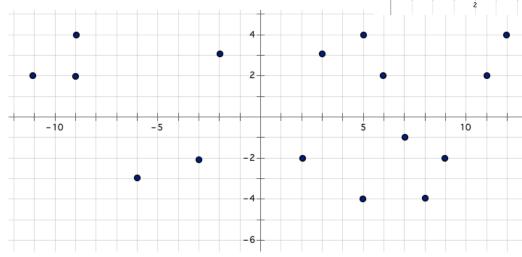




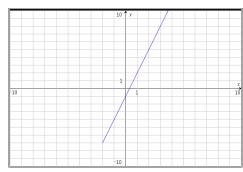




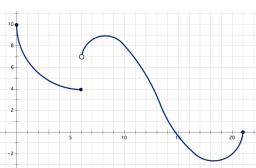




6.



7.



The following represents a continuous function defined on the interval from [0, 6].

X	f(x)
0	2
1	-3
2	0
3	2
4	6
5	12
6	20

- 8. Determine the domain, range, x and y intercepts.
- 9. Based on the table, identify the minimum value and where it is located

The following represents a discrete function defined on the interval from [1,5].

X	f(x)
1	4
2	10
3	5
4	8
5	3

- 10. Determine the domain, range, x and y intercepts.
- 11. Based on the table, identify the minimum value and where it is located.

Describe the key features for each situation.

- 12. The amount of daylight dependent on the time of year.
- 13. The first term in a sequence is 36. Each consecutive term is exactly 1/2 of the previous term.
- 14. Marcus bought a \$900 couch on a six months, interest free payment plan. He makes \$50 payments to the loan each week.
- 15. The first term in a sequence is 36. Each consecutive term is 1/2 less than the previous term.
- 16. An empty 15 gallon tank is being filled with gasoline at a rate of 2 gallons per minute.

For each equation, sketch a graph and show key features of the graph.

17.
$$f(x) = -2x + 4$$
, when $x \ge 0$

18.
$$g(x) = 3^x$$

