

Characteristics of Functions

Even and Odd

	Even	Odd	Neither
Algebraically			
Graphically			

NOTE: All constants really have _____, and x^0 is _____.

Determine if the functions are even, odd, or neither.

1. $f(x) = x^3 - x$

2. $f(x) = x^2 + 1$

3. $f(x) = 2x^4 - 3$

4. $f(x) = x^3 + 2x$

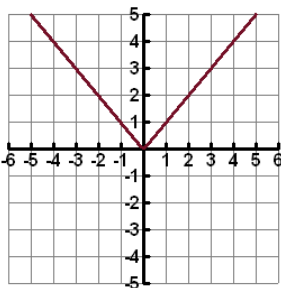
5. $f(x) = -x^3$

6. $f(x) = x^3 - x^2$

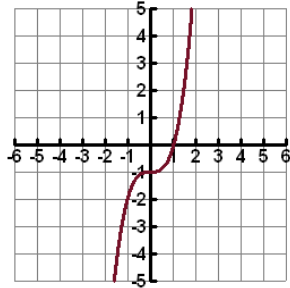
7. $f(x) = x^2 + 3$

8. $f(x) = x^3 + 4x + 1$

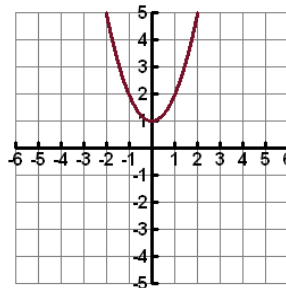
9.



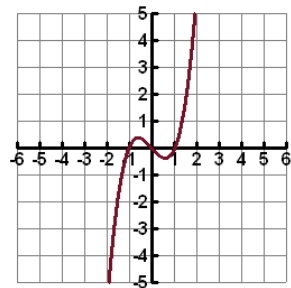
10.



11.



12.



Discrete and Continuous

	Discrete	Continuous
Definition		
Examples		

Determine if the scenario would be discrete or continuous.

1. Recording your height as you get older

2. The number of t-shirts ordered for a fundraiser

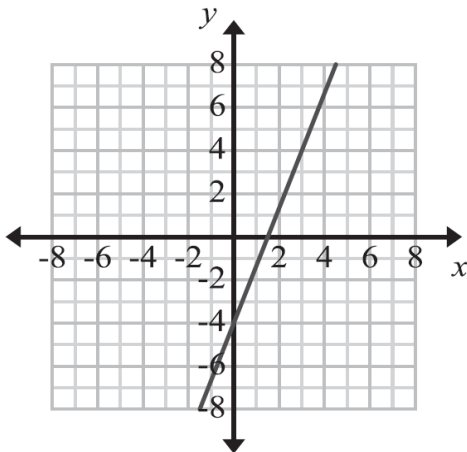
Domain and Range

The _____ of a relation is the set of all _____ or _____.

The _____ of a relation is the set of all the _____ or _____.

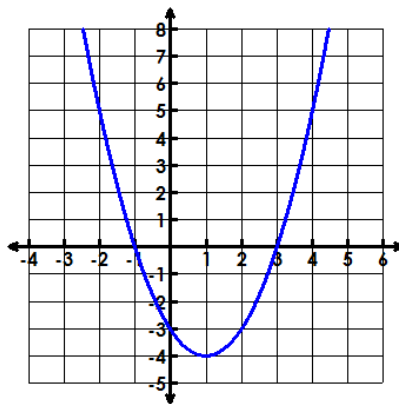
Notation	Definition	Examples
Set Notation		
Algebraic Notation		
Interval Notation		

Determine the domain of the following functions.



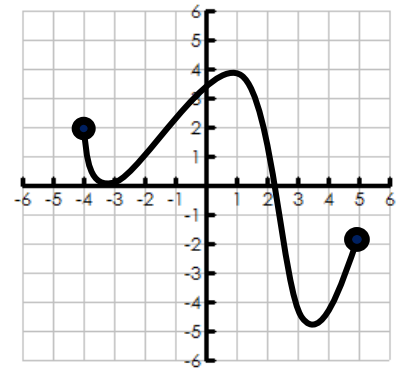
Domain:

Range:



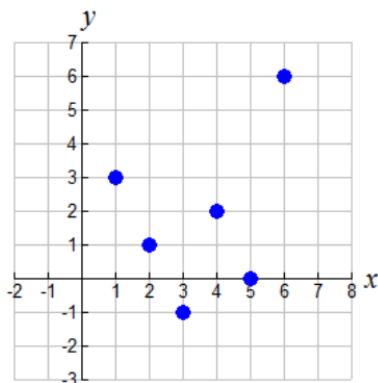
Domain:

Range:



Domain:

Range:



Discrete or Continuous?

Domain:

Range: