

Name: _____ Date: _____

Characteristics of Linear Graphs

Interval Notation:

Represents an interval as a _____. The numbers are the endpoints of the interval. _____ and/or _____ are used to show excluded or included.

Interval :

|

Domain and Range:

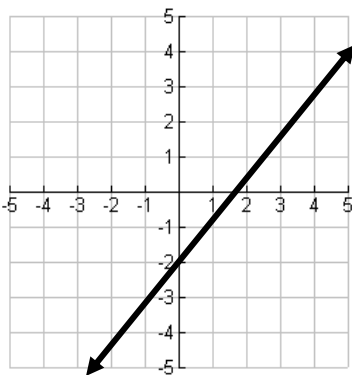
Domain: The _____ that are contained in the graph. Write it from _____.

Range: The _____ that are contained in the graph. Write it from _____.

Examples:

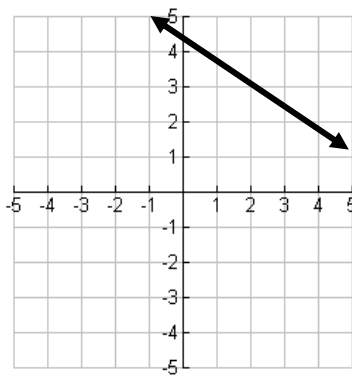
1) D: _____

R: _____



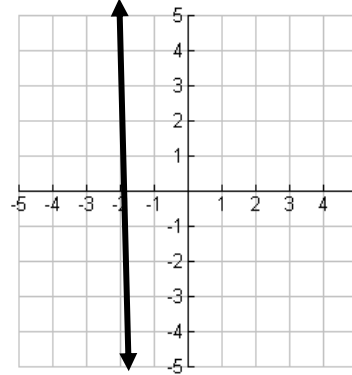
2) D: _____

R: _____



3) D: _____

R: _____



Interval of Increasing and Decreasing:

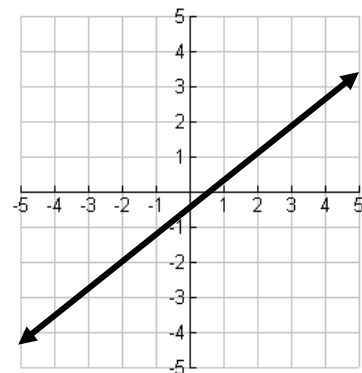
Always read from _____ to _____

- If your finger is going up, the graph is _____.
- If going down, the graph is _____.

Example:

Inc: _____

Dec: _____



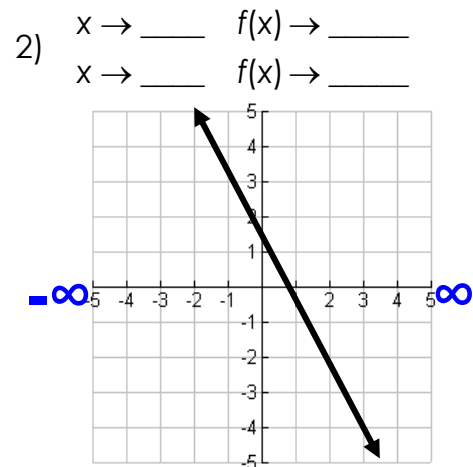
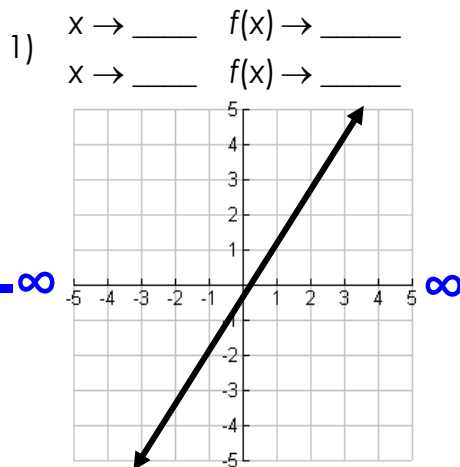
Zeros/Roots/Solutions

Intercepts

- **x-intercept** – the point at which the line intersects the _____. ()
- **y-intercept** – the point at which the line intersects the _____. ()

End Behavior:

- What a function keeps doing after it leaves the graph
- _____ : As x goes to the right, where does y go?
- _____ : As x goes to the left, where does y go?



Rate of Change:

- The rate of change is the average _____ of a graph over a given period
- The period is defined by _____
- The rate of change formula is: