

Different Methods of Representing Domain and Range

Discrete Data:

Continuous Data:

Interval Notation: used when given a set of continuous data. Ex: graphs with connected points

Symbols: $[,]$ when points are closed

$(,)$ when points are open

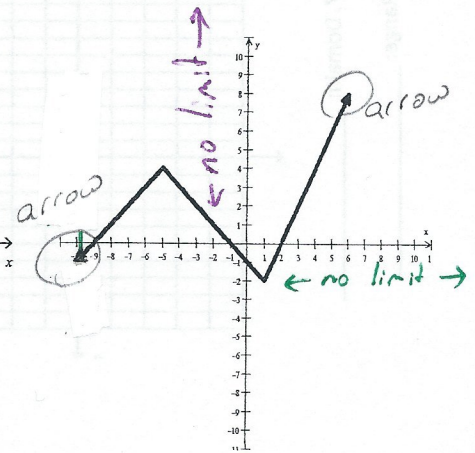
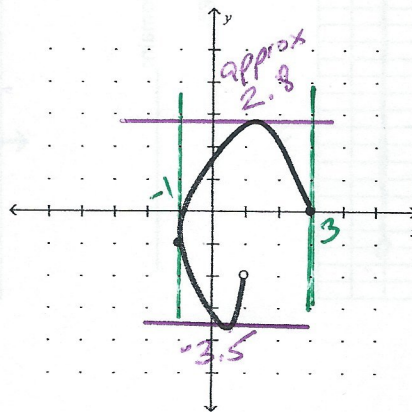
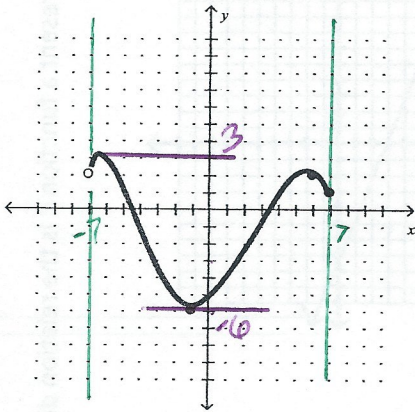
∞ means a graph goes forever either to the right or up; always use parenthesis before or after symbol

$-\infty$ means a graph goes forever either to the left or down; always use parenthesis before or after symbol

Domain: [or (point furthest left , point furthest right) or]

Range: [or (lowest point , highest point) or]

Interval and Inequality Notation: Continuous data



Interval Notation:

Domain: $[-7, 7]$

Range: $[-6, 3]$

Domain: $[-1, 3]$

Range: $[-3.5, 2.8]$

Domain: $(-\infty, \infty)$

Range: $(-\infty, \infty)$

Function: yes
continuous

- continuous data
- Not a function

continuous data
function