2-1 Functions

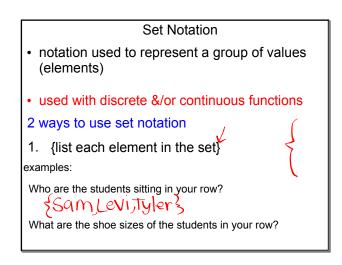
Set & Interval Notation

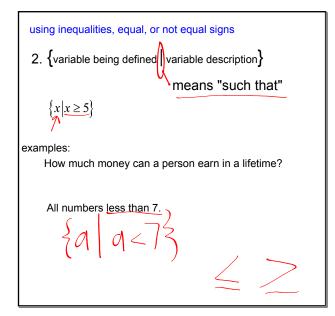
Function or Not? Function notation

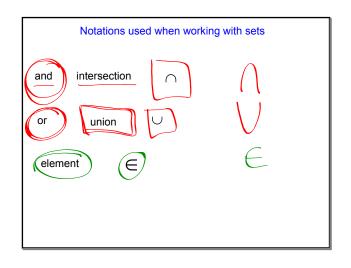
Domain & Range

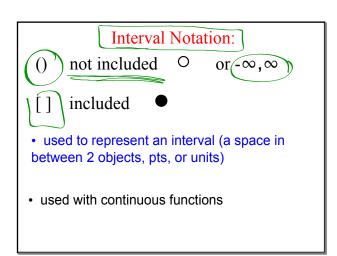
Increasing & Decreasing

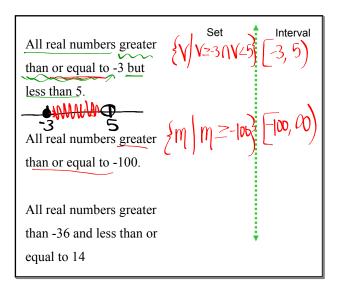
Rate of Change











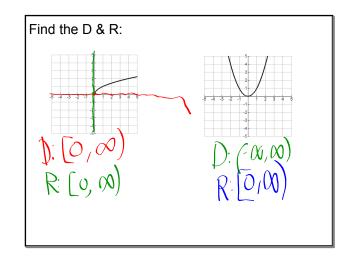
Domain & Range

Domain: x-values (input or independent variable) read x's from left to rt. (smallest to largest)

Range: y-values (output or dependent variable)

read y's from bottom to top (smallest to largest)

distance vs. time when using versus it is always: dependent vs independent



What are the dependent and independent variables? What is a realistic D & R, write it in set or interval notation?

A person gains 225 calories for each sandwich they eat.

calories vs. sandwiches

The initial fee for an electrician to come to your home is \$60. Each additional hour is \$10.

Increasing, Decreasing and Constant

• as you move from left to right the y-values increase (the graph is going up)

- as you move from left to right the y-values
- decrease (the graph is going down)
- as you move from left to right the y-values do not change (the graph is flat)

this behavior is reported using interval notation for the x-values where the graph has a given behavior

