Lesson 1.C Estimating slope, Average Rate of Change

#LT #1-6: Find the Average Rate of Change

Average Rate of Change

For a linear function is the constant

For a nonlinear function There is NO constant rate of change for the entire function

Found for a

change of

Change of

Example: Find the average Rate of Change

1. Linear Function

2. Non-linear function on interval

3. on interval

4. from and

5. On interval

6. From and

7. Below is the graph of a parabola representing a quadratic function. USE AS MANY OF THE VOCABULARY WORDS IN THE TEXT BOX below the graph to describe the parabola.

Key Features of Parabolas Representing Quadratic Functions

Vertex

Absolute minimum

Absolute maximum

Rate of Change

Increasing over interval

Decreasing over interval

Symmetry

Positive

Negative

Domain

Range

Vertex: abs max

The average rate of change over the interval

is

Inc over the interval:

Dec over the interval:

Axis of symmetry

Pos :

Neg :

Domain:

Range: