Lecture Handout #03: Sep 6

Average Rates of Change

Compute the average rate of change of $f(x) = $ _____

- between $x = $ _____ and $x = $ _____
- between $x = $ _____ and $x = $ _____
- between $x = $ _____ and $x = $ _____

Position and Velocity

Location of a bicyclist along a trail at different times of the day:

Time	1:00 pm	1:15	1:40	2:00	2:10
Position (km)	0	5.5	18	29	28

Average Cost Per Unit

Cost of producing 2-liter plastic bottles:

Quantity	0	1000	2000	4000	10,000
Cost ($)	600	720	820	980	1400

Concavity

Draw a graph of a function that is:

increasing and concave up

decreasing and concave up

increasing and concave down

decreasing and concave down