Average Rate of Change

The following table represents the growth of a bacteria population over a 10 h period.

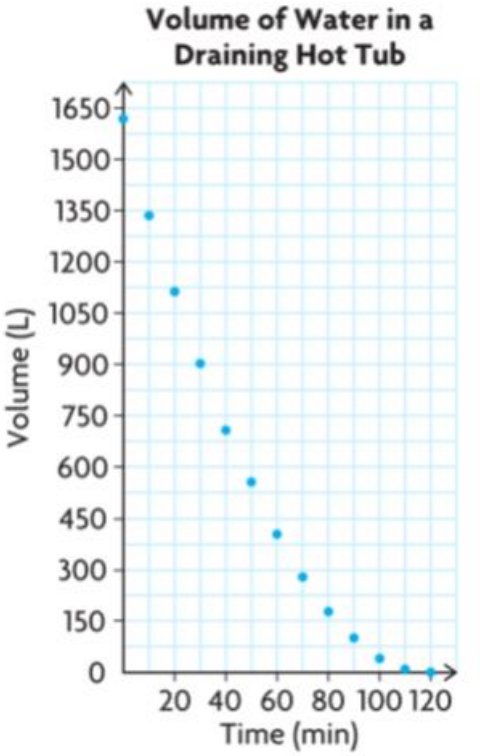
Time (h)	0	2	4	6	8	10
Number of Bacteria	850	1122	1481	1954	2577	3400

During which 2 hour period did the bacteria grow the fastest?

Given the function: $h(t) = -5t^2 + 10t + 120$

Determine the average rate of change for each time interval.

a. $0 \leq t \leq 1$ b. $1 \leq t \leq 2$ c. $3 \leq t \leq 4$



Determine the average rate of change for the time interval: $30 \leq t \leq 60$

Given the graph below, determine intervals on which the average rate of change is

a. negative b. positive c. zero