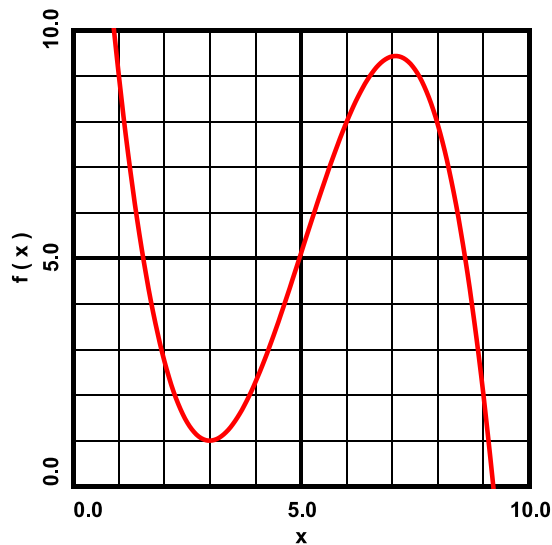


PRE-AP ALGEBRA 2

1B.1 CLASSWORK

- 1) Find the average rate of change of $f(x) = 2x^2 - 8x + 11$ with respect to x on the interval $5 \leq x \leq 10$.

- 2) For the function $y = f(x)$ defined by the graph, calculate the average rate of change of f with respect to x on the interval $3 \leq x \leq 6$.



- 3) The table gives the height y , in feet, as a function of time t , in seconds, for a rock which was dropped off of a 256 foot-tall cliff.

t	y
0	256
1	240
2	192
3	112
4	0

Find the average rate of change of y with respect to t for the intervals

- a) $0 \leq t \leq 1$ sec
- b) $1 \leq t \leq 2$ sec
- c) $2 \leq t \leq 3$ sec
- d) $3 \leq t \leq 4$ sec
- e) What is the physical meaning of these rates of change?