For problems 1 - 4, find the slope of the line that passes through the two points.

1.) (1,7), (2,-4)

2.)(-3,5),(6,2)

3.) $\left(\frac{1}{2}, -\frac{2}{3}\right)$, $\left(-\frac{3}{4}, \frac{5}{6}\right)$

For problems 5 - 8, use the table of values to find the average rate of change over the given interval.

x	1	2	3	3.5	3.7	6
y	40	25	18	15	18	38

5.) [1,3]

6.) [2,6]

7.) [2, 3.7]

8.) [3.5,6]

For problems 9 - 12, find the average rate of change of each function on the given interval.

9.)
$$f(x) = x^2 - 4x - 12$$
 on [0, 6]

10.)
$$f(x) = x^2 - 4x - 12$$
 on $[-1, 7]$

11.)
$$f(x) = 3x^2 - x - 2$$
 on $[-1, 4]$

12.)
$$f(x) = 0.05x^2 - 1.3x + 22.8$$
 on [13, 23]

For problems 13 – 14 computer the average rate of change from A to B, from B to C, and from A to C. Which one gives the largest average rate of change?

