

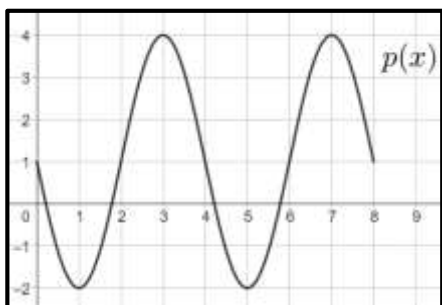
**Directions:** Find the average rate of change for the following functions on the given intervals. Show all work.

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

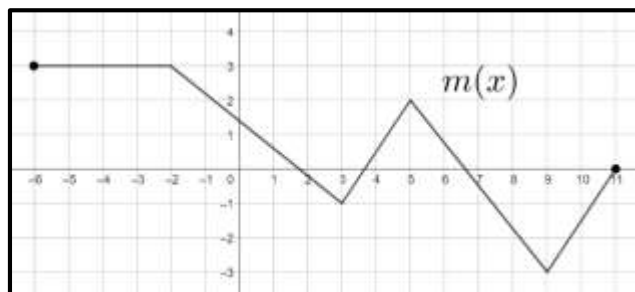
2.  $g(x) = 8 - 3x$  on  $[1, 6]$

3.  $h(x) = \sqrt{x^3 + 1}$  on  $[-1, 2]$

4.  $k(x) = \frac{6x}{x - 1}$  on  $[2, 4]$



5.  $p(x)$  on  $[3, 8]$



6.  $m(x)$  on  $[-6, 11]$

$x$	-2	5	9	11
$g(x)$	4	-1	1	8

7. Selected values for the function  $g(x)$  are shown in the table above. Find the average rate of change for  $g(x)$  from  $x = -2$  to  $x = 9$ .