

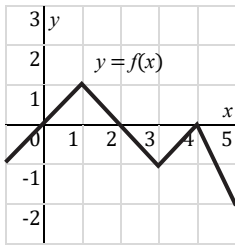
**Quiz 53** .....

Find the average rate of change of  $f$  over the given interval.

1.  $-1 \leq x \leq 2$

$x$	-1	0	1	2	3
$f(x)$	1	3	5	7	9

2.  $0 \leq x \leq 4$



3.  $f(x) = 4x + 7; -3 \leq x \leq 6$

4.  $f(x) = 2^x; 2 \leq x \leq 6$

Solve.

5. A model rocket is launched straight upward with an initial speed of 160 feet per second. Its height  $h$ , in feet, after  $t$  seconds is given by the function  $h(t) = -16t^2 + 160t$ . Find the average rate of change from  $t = 0$  to  $t = 5$ .