5. Given the function $k(n)=n^2+n$,
the average rate of change from n=0 to n=4 is:

6

-5

5

4

Solution

Using the average rate of change formula:

The average rate of change $= \frac{k(4)-k(0)}{4-0}$

$= \frac{(1(4)^2+1(4))-(1(0)^2+1(0))}{4}$

$= \frac{20-0}{4}$

$= 5$