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

10

-9

9

8

Solution

Using the average rate of change formula:

The average rate of change $= \frac{e(5)-e(0)}{5-0}$

$= \frac{(1(5)^2+4(5))-(1(0)^2+4(0))}{5}$

$= \frac{45-0}{5}$

$= 9$