9. Given the function $q(m)=2m^2+2m$,
the average rate of change from $m=-1$ to $m=4$ is:

9

-8

8

7

Solution

Using the average rate of change formula:

The average rate of change $= \frac{q(4)-q(-1)}{4-(-1)}$

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

$= \frac{40-0}{5}$

$= 8$