1. Given the function $y(n)=n^2+4n$,
the average rate of change from n=3 to n=4 is:

12

-11

11

10

Solution

Using the average rate of change formula:

The average rate of change $= \frac{y(4)-y(3)}{4-3}$

$= \frac{(1(4)^2+4(4))-(1(3)^2+4(3))}{1}$

$= \frac{32-21}{1}$

$= 11$