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

16

-15

15

14

Solution

Using the average rate of change formula:

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

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

$= \frac{36-21}{1}$

$= 15$