6. Given the function  $v(j)=j^2+j$ , the average rate of change from j=2 to j=5 is:

## Solution

Using the average rate of change formula:

The average rate of change = 
$$\frac{v(5)-v(2)}{5-2}$$
  
=  $\frac{(1(5)^2+1(5))-(1(2)^2+1(2))}{3}$ 

 $= \frac{30-6}{3}$