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

## Solution

= 10

Solution
Using the average rate of change formula:

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

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

$$= \frac{28-18}{1}$$