6. Given the function  $f(p) = 2p^2 + 4p$ , the average rate of change from p=0 to p=5 is:

## Solution

Using the average rate of change formula:

The average rate of change = 
$$\frac{f(5)-f(0)}{5-0}$$

$$= \frac{(2(5)^2+4(5))-(2(0)^2+4(0))}{5}$$
$$= \frac{70-0}{5}$$