

9. Given the function $x(c)=2c^2+c$,
the average rate of change from $c=-2$ to $c=5$ is:

8

-7

7

6

Solution

Using the average rate of change formula:

$$\text{The average rate of change} = \frac{x(5)-x(-2)}{5-(-2)}$$

$$= \frac{(2(5)^2+1(5))-(2(-2)^2+1(-2))}{7}$$

$$= \frac{55-6}{7}$$

$$= 7$$