

9. Given the function $n(c) = c^2 + 2c$,
the average rate of change from $c=3$ to $c=5$ is:

11

-10

10

9

Solution

Using the average rate of change formula:

$$\text{The average rate of change} = \frac{n(5) - n(3)}{5 - 3}$$

$$= \frac{(1(5)^2 + 2(5)) - (1(3)^2 + 2(3))}{2}$$

$$= \frac{35 - 15}{2}$$

$$= 10$$