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

13

-12

12

11

Solution

Using the average rate of change formula:

The average rate of change $= \frac{z(4)-z(0)}{4-0}$

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

$= \frac{48-0}{4}$

$= 12$