8. Given the function $g(t)=t^2+2t$,
the average rate of change from t=3 to t=5 is:

11

-10

10

9

Solution

Using the average rate of change formula:

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

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

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

$= 10$