8. Given the function $x(s)=s^2+4s$,
the average rate of change from $s=-2$ to $s=5$ is:

8

-7

7

6

Solution

Using the average rate of change formula:

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

$= \frac{(1(5)^2+4(5))-(1(-2)^2+4(-2))}{7}$

$= \frac{45-(-4)}{7}$

$= 7$