7. Given the function  $r(y) = 2y^2 + 2y$ , the average rate of change from y=3 to y=6 is:

## Salutia

**Solution**Using the average rate of change formula

Using the average rate of change formula:  
The average rate of change = 
$$\frac{r(6)-r(3)}{6-3}$$

$$= \frac{(2(6)^2 + 2(6)) - (2(3)^2 + 2(3))}{3}$$

 $= \frac{84-24}{3}$ = 20