

A particle retards uniformly, it covers successive equal distances, the avg velocity in first part is 20, in third part is 12, what is its avg velocity in second part?

Solution:

According to condition that a particle retards uniformly, the velocity in second part is as average from first and third parts:

$$V_2 = (V_1 + V_3)/2$$

$$V_2 = \frac{20+12}{2} = 16$$

Answer:

16