

Answer on Question 53337, Physics, Mechanics | Kinematics | Dynamics

Question:

A man walks 4 km towards north in one hour and 3 km towards east in the next hour. What is his average speed?

Solution:

By the definition, the formula for average speed looks like:

$$v_{avg} = \frac{\text{Total Distance Covered}}{\text{Total Time Taken}} = \frac{4\text{km} + 3\text{km}}{1\text{hour} + 1\text{hour}} = \frac{7\text{km}}{2\text{hour}} = 3.5 \frac{\text{km}}{\text{hour}}.$$

Answer:

$$v_{avg} = 3.5 \frac{\text{km}}{\text{hour}}.$$

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