

Answer on Question #47374, Physics, Mechanics — Kinematics — Dynamics

A man leaves the garage in his house and drives to a neighbouring town which is twenty kilometres away from his house on sight-seeing. He returns home to his garage two hours after. What is his average velocity from home in km/h?

Solution

A man will path 40 km in total - 20 km to town and 20 km on the way back. As he spent 2 hours for this, his average velocity is

$$v = 40/2 = 20 \text{ km/h}$$