
Mechanics 1 Kinematics Questions

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1 Kinematics Questions. Mechanics 1
Kinematics Answers. 2 A particle P

moves with acceleration ($-3\mathbf{i} - 4\mathbf{j}$ m/s²)

(a) Find the velocity of P at time t seconds. (b) Find the speed of P when $t = 0.5$ s. (2 marks) (3 marks) 6 A van moves from rest on a straight horizontal road.

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 $a = 243 \text{ m/s}^2$
 $d = v_i t + 0.5 a t^2$
 $d = (0 \text{ m/s})(1.83 \text{ s}) + 0.5(243 \text{ m/s}^2)(1.83 \text{ s})^2$
 $d = 0 \text{ m} + 406 \text{ m}$
 $d = 406 \text{ m}$ (Note: the d can also be calculated using the equation $v_f^2 = v_i^2 + 2 a d$)

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 About Kinematics questions. As a first step in studying classical mechanics, This chapter describe the motion of an object while ignoring the interaction with external agents that might be causing or modifying that motion. This portion of classical mechanics is called kinematics. To facilitate the learning process for the students we have split kinematics in to two parts.
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Topic 3: Kinematics - Displacement, Velocity, Acceleration, 1- and 2-Dimensional Motion Source: Conceptual Physics textbook (Chapter 2 - second

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