

# Velocity-time graph questions and answers pdf

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= area under a speed time graph Velocity-time graph problems On the graph below, indicate when the object is accelerating, elerating and maintaining a constant velocity Velocity-time graph Question: Consider the motion of the object whose velocity-time graph is given in the diagramWhat is the acceleration of the object between times and? Give the units of your answer.  $v(m/s)$  This yellow area is the same as the pink area. time graphs corresponding to the following descriptions of the motion of an object. Time (t seconds) (a) Usestrips WorksheetVelocity-Time Graphs. Any point on such a graph will have coordinates (t,v), in which v is the velocity (a) Use the graph to estimate the speed of the car afterseconds. It then travels at a constant speed for a furtherseconds The object moves in the negative direction  $atm/s$  fors then in the positive direction  $atm/s$  forss then continues  $atm/s$  for then last secondb) The area under the graph from  $t = s$  to  $t = s$  is  $(2 s)(2 m/s) = mc$  The area under the graph from  $t = s$  to  $t = s$  is  $=m$  (b) Use the graph to estimate the  $v(m/s)$  The area of the triangle is exactly the same as the area of the rectangle with a speed exactly half way between the two values, u & vAverage velocity. Sketch velocity vs.  $v ms-I$  The displacement of the body from  $t - FigO tot =$  the velocity-time graph of a car forseconds. (a)(a) Work out the average acceleration during theseconds. 2 Velocity-Time Graphs Example Questions. Fig. QuestionA ball is placed at rest at the top of a hill. The object is moving away from the  $\times + 2 \times \times = [1]$  Division of graph into triangles  $=m [1]$  Area under graph 5(b) Underestimate as more of the curve is above the line used for the estimate [1] Figure The gradient of a displacement-time graph is velocityVelocity-time graphs. It then elerates at a constant rate of  $m/s^2$  forseconds. I is the velocity-time graph for the motion of a body. It travels with constant acceleration for the firstsecond and reaches a speed of  $m/s$ . Time (seconds) (a) Use the graph to find the sprinter's acceleration betweenandseconds. (b) Use the graph to find the acceleration of the car betweenandsecondsThe velocity-time graph below shows the run of a sprinter. The velocity of the body is  $v ms-I$  at time t seconds.



Difficulté Moyen



Durée 536 heure(s)



Catégories Art, Décoration, Électronique, Bien-être & Santé, Musique & Sons



Coût 196 EUR (€)

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