

Velocity - Time Graph

A car moves so that its velocity v m/s after t seconds is given by the formula $v = 2t(8 - t)$.

- (a) Draw a table of values for t and v , taking values of t from 0 to 8. Draw a graph of v against t .
- (b) Use your graph to find the acceleration of the car after
(i) 3 seconds (ii) 4 seconds (iii) 6 seconds
- (c) By dividing the area under the graph into 4 strips of width 2 seconds, find the approximate distance travelled by the car.

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