

H.W
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MOTION

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Q1. The numerical ratio of displacement to distance for a moving object is

(a) Always less than 1

(b) Always equal to 1

(c) Always more than 1

(d) Equal or less than 1 ✓

Q2. If the displacement of an object is proportional to square of time then the object moves with

(a) Uniform velocity

(b) Uniform acceleration ✓

(c) Increasing acceleration

(d) Decreasing acceleration

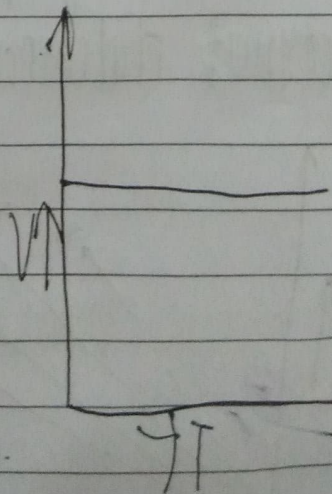
Q3. In uniform motion $v-t$ graph, it can be inferred that the object is

(a) In uniform motion

(b) at rest

(c) In non-uniform motion ✓

(d) Moving with uniform acceleration.



Q4. Suppose a boy is enjoying a ride on a merry-go-round which is ~~among~~ moving with a constant speed of 10 ms^{-1} . It implies in at the boy is

(a) At rest

(b) Moving with acceleration

(c) In accelerated motion ✓

(d) Moving with uniform velocity

Q5. Area under $v-t$ graph represents a physical quantity which has the unit

(a) m^2 (b) m (c) m^2 (d) ms^{-1}

Q6. Four cars A, B, C and D are moving on a levelled road. Their distance versus time graphs are shown in the adjacent figure. Choose the correct statement

