

PYQSide

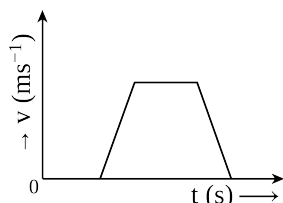
NEET MOTION IN A STRAIGHT LINE — POSITION–TIME, VELOCITY–TIME AND ACCELERATION–TIME GRAPHS — PYQS

Max. Marks: 16

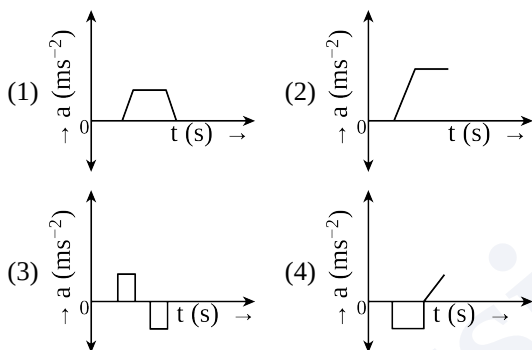
Questions: 4

Section A (MCQ)

- Q.1** The velocity (v)– time (t) plot of the motion of a body is shown below:

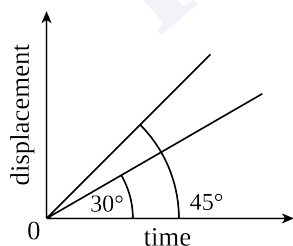


The acceleration (a)– time (t) graph that best suits this motion is : [NEET (UG) 2024]



Scan or tap for the full solution

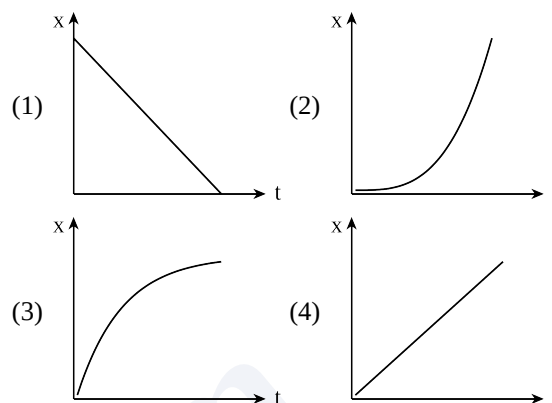
- Q.2** The displacement-time graphs of two moving particles make angles of 30° and 45° with the x-axis as shown in the figure. The ratio of their respective velocity is [NEET (UG) 2022]



- (1) $\sqrt{3} : 1$ (2) $1 : 1$ (3) $1 : 2$ (4) $1 : \sqrt{3}$

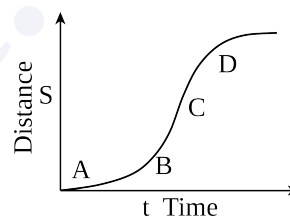
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- Q.3** The position-time (x - t) graph for positive acceleration is [NEET (UG) 2022 (Phase 2)]



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- Q.4** A particle shows distance - time curve as given in this figure. The maximum instantaneous velocity of the particle is around the point [AIPMT 2008]



- (1) D (2) A (3) B (4) C

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ANSWER KEY

Ques.	1	2	3	4										
Ans.	3	4	2	4										