

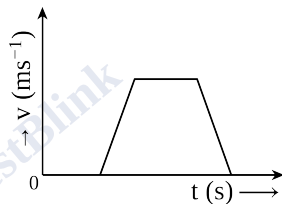
NEET MOTION IN A STRAIGHT LINE — POSITION–TIME, VELOCITY–TIME AND ACCELERATION–TIME GRAPHS — PYQS

Max. Marks: 16

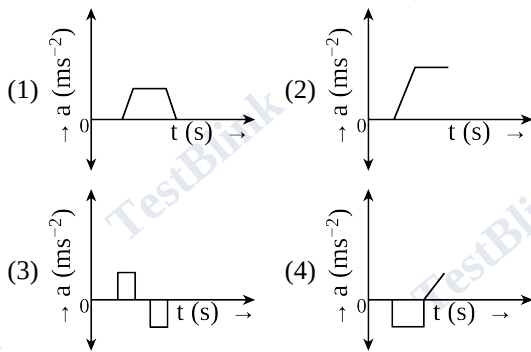
Questions: 4

Section A (MCQ) — 4 questions

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



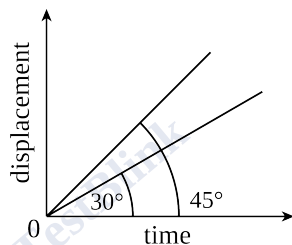
The acceleration (a)– time (t) graph that best suits this motion is : [NEET (UG) 2024]



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]

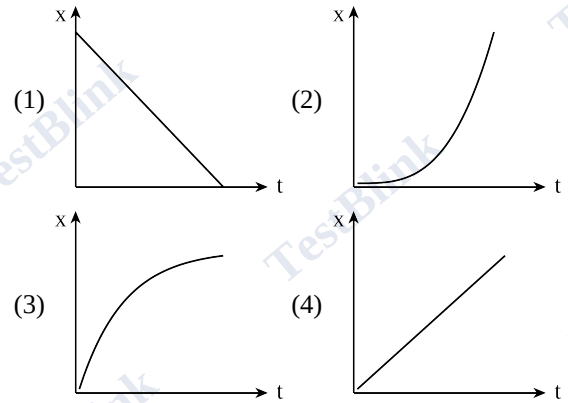


- (1) $\sqrt{3}:1$ (2) $1:1$ (3) $1:2$ (4) $1:\sqrt{3}$

Scan or tap for the full solution



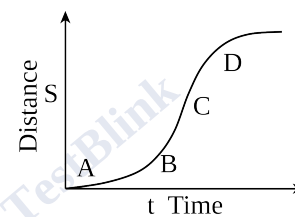
Q.3 The position-time ($x - t$) graph for positive acceleration is [NEET (UG) 2022 (Phase 2)]



Scan or tap for the full solution



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

Scan or tap for the full solution



ANSWER KEY

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