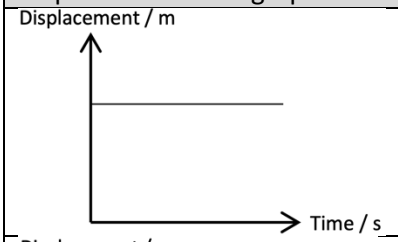
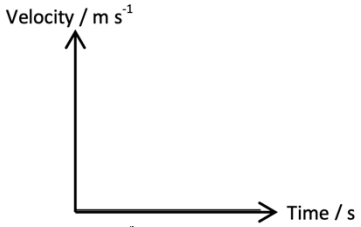
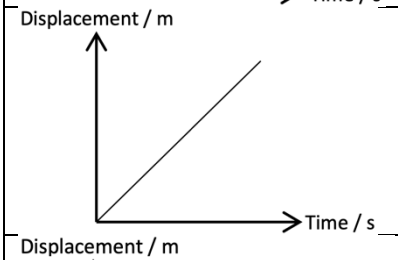
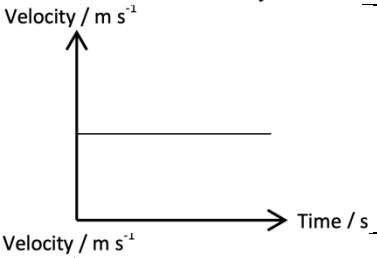
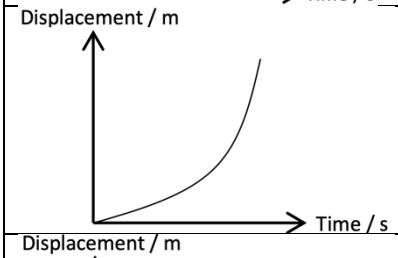
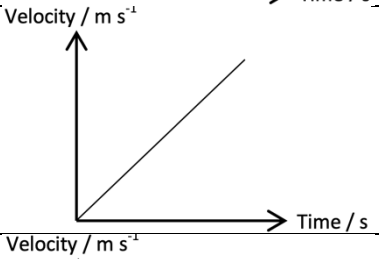
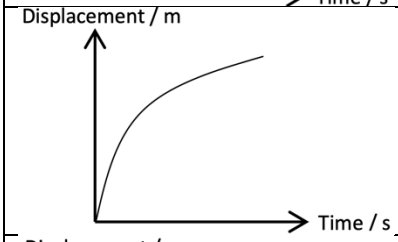
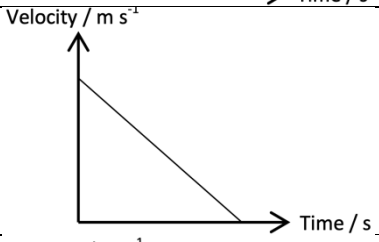
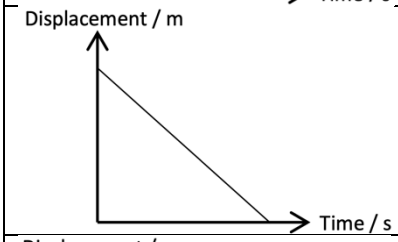
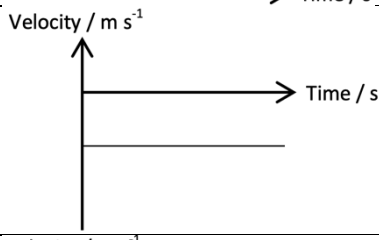
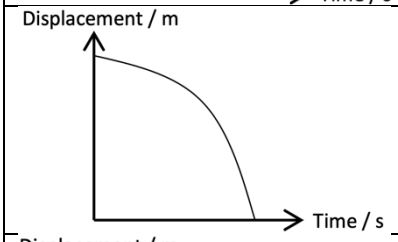
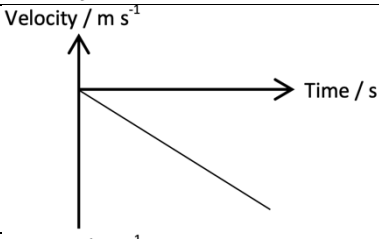
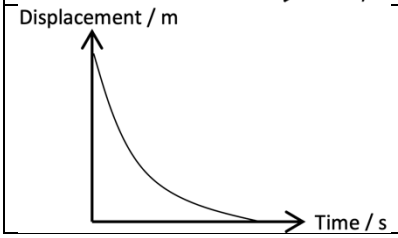
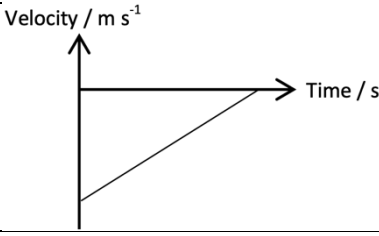
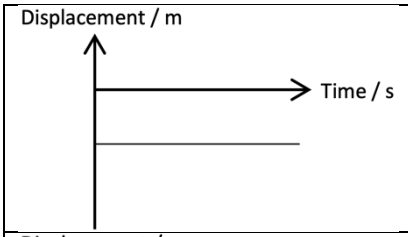
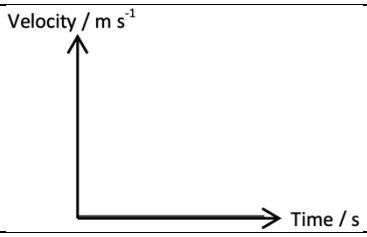
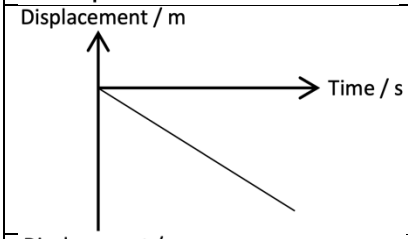
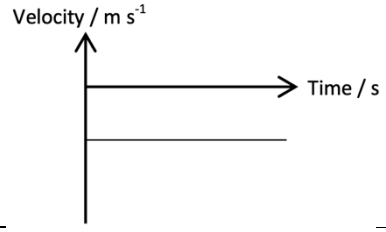
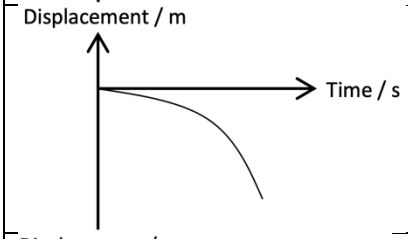
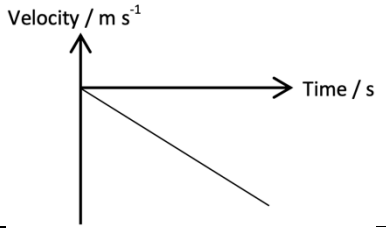
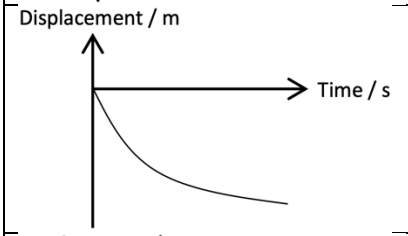
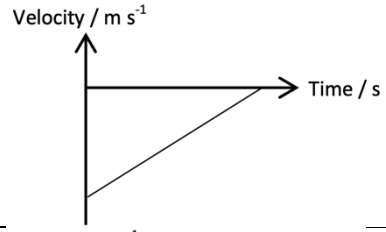
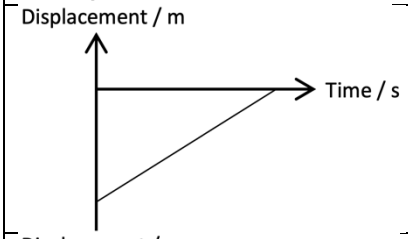
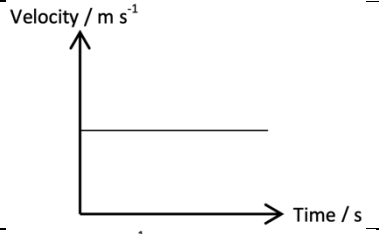
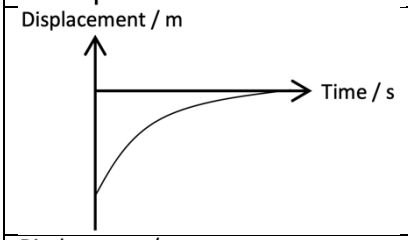
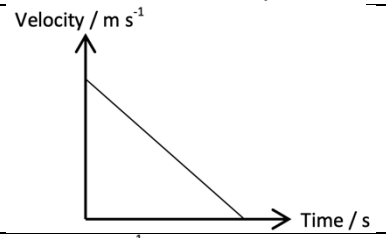
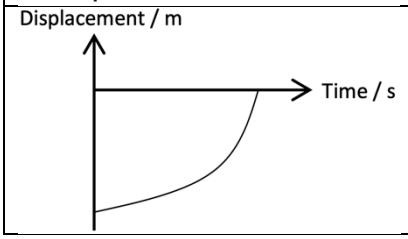
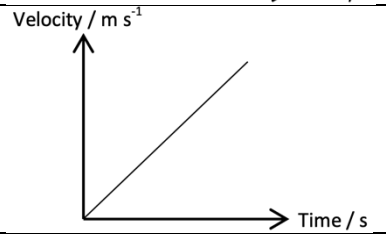
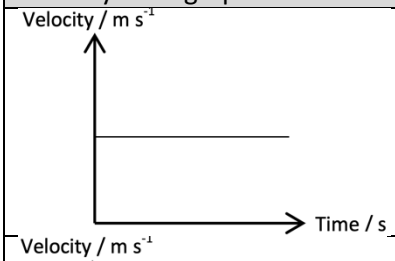
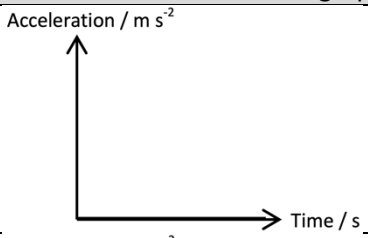
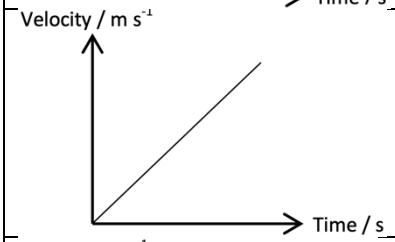
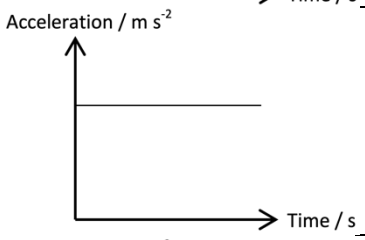
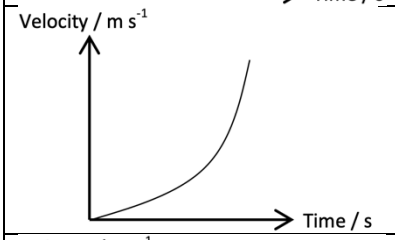
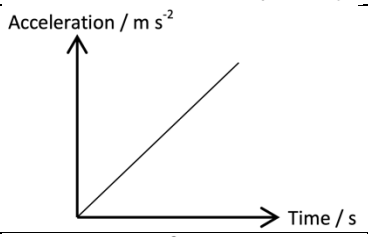
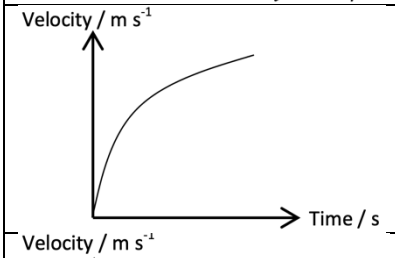
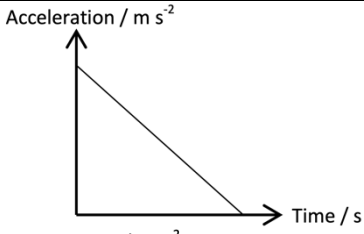
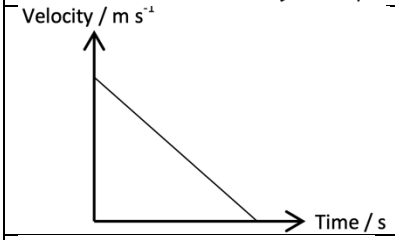
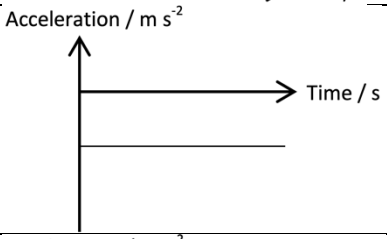
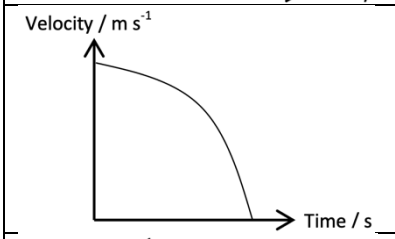
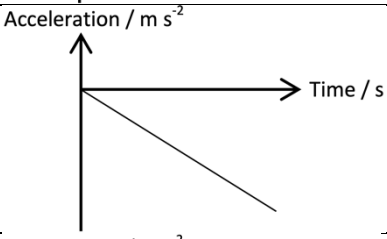
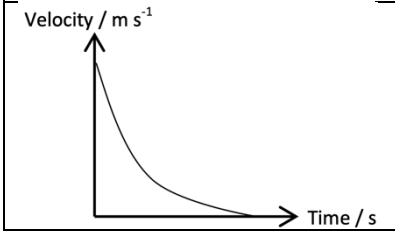
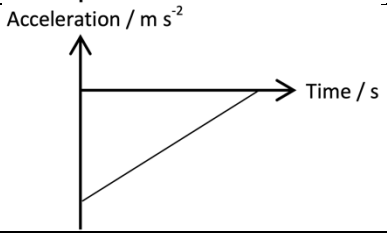
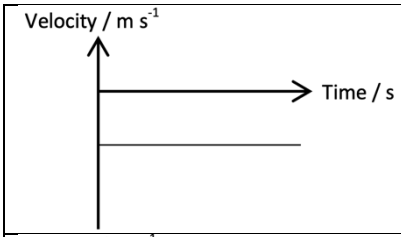
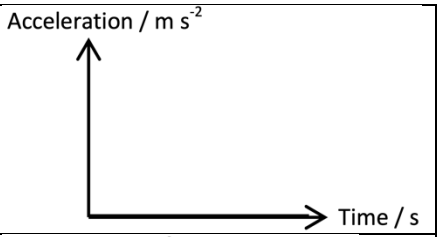
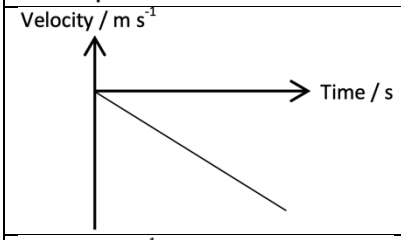
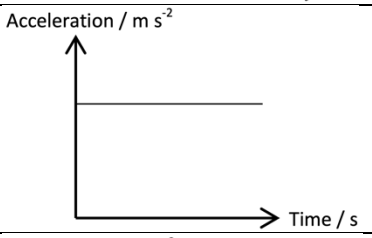
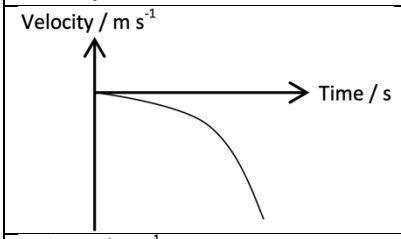
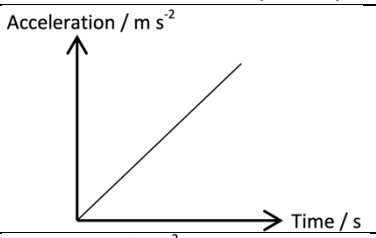
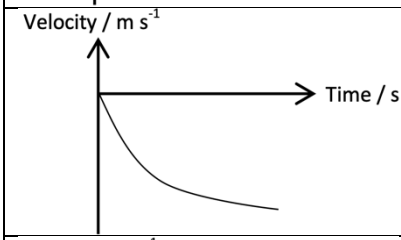
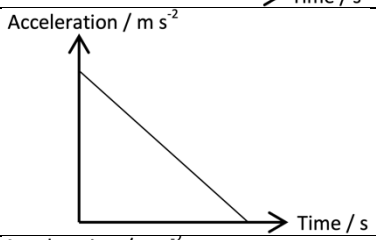
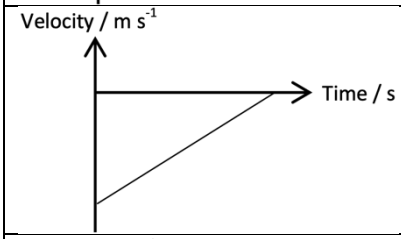
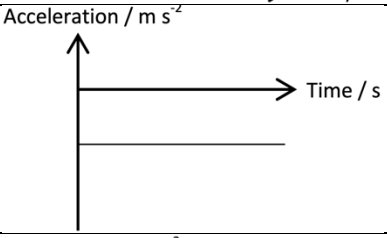
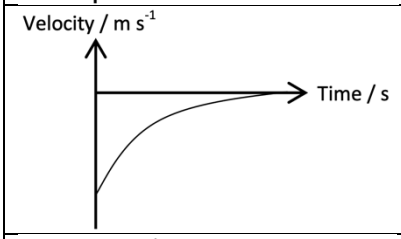
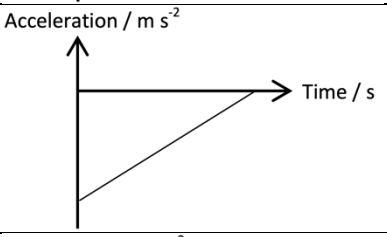
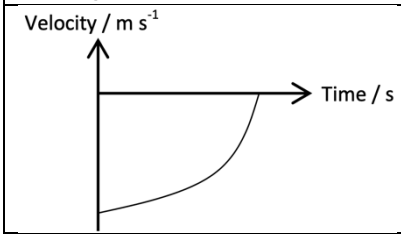
- Displacement-time graphs
  Positive gradient → moving in forward direction
  Negative gradient → moving in reverse direction
  Above x-axis → in front of start point (positive displacement)
  Below x-axis → behind start point (negative displacement)

Displacement-time graph	Interpretation	Derived velocity-time graph
	Zero velocity In front of start point No displacement – same position	
	Constant velocity Forward direction Away from start point	
	Increasing velocity (speeding up) Forward direction Away from start point	
	Decreasing velocity (slowing down) Forward direction Away from start point	
	Constant velocity Reverse direction Approaching start point	
	Increasing velocity Reversing direction Approaching start point	
	Decreasing velocity Reversing direction Approaching start point	

	Zero velocity Behind start point No displacement – same position	
	Constant velocity Negative forward direction Away from start point	
	Increasing velocity Negative forward direction Away from start point	
	Decreasing velocity Negative forward direction Away from start point	
	Constant velocity Negative reversing direction Approaching start point	
	Decreasing velocity Negative reversing direction Approaching start point	
	Increasing velocity Negative reversing direction Approaching start point	

- Velocity-time graphs
  Positive gradient → acceleration
  Negative gradient → deceleration
  Above x-axis → in the positive direction
  Below x-axis → in the negative direction

Velocity-time graph	Interpretation	Derived acceleration-time graph
	Constant velocity Zero acceleration (towards positive direction)	
	Increasing velocity Constant positive acceleration	
	Increasing velocity Increasing positive acceleration	
	Decreasing velocity Decreasing positive acceleration	
	Decreasing velocity Constant positive deceleration	
	Decreasing velocity Increasing positive deceleration	
	Decreasing velocity Decreasing positive deceleration	

	Constant velocity Zero acceleration (towards negative direction)	
	Increasing velocity Constant negative acceleration	
	Increasing velocity Increasing negative acceleration	
	Decreasing velocity Decreasing negative acceleration	
	Decreasing velocity Constant negative deceleration	
	Decreasing velocity Decreasing negative deceleration	
	Decreasing velocity Increasing negative deceleration