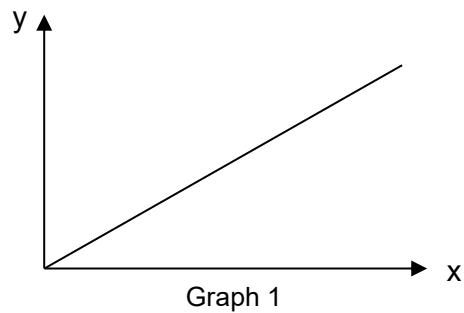
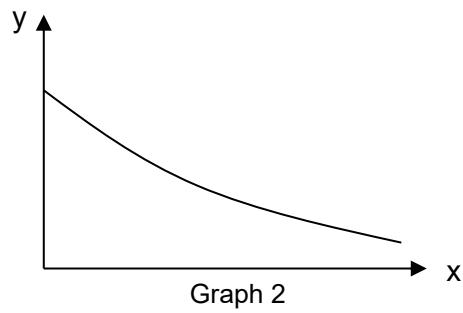


- 5 An object is accelerated from rest by a constant force. The process is observed in an experiment.

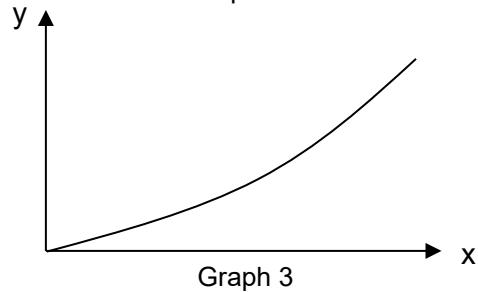
Which of the following graphs correctly shows the variation of the displacement with time squared, and the variation of the momentum with displacement of the object?



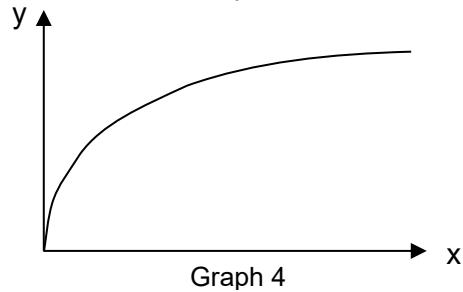
Graph 1



Graph 2



Graph 3



Graph 4

displacement vs (time)²

- A Graph 4
- B Graph 3
- C Graph 2

momentum vs displacement

- Graph 1
- Graph 2
- Graph 3

D

Graph 1

Graph 4