

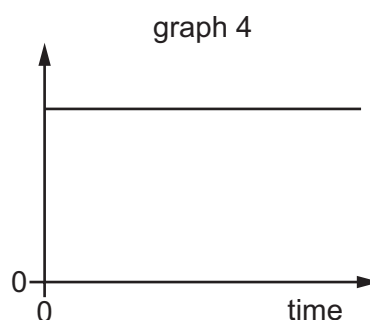
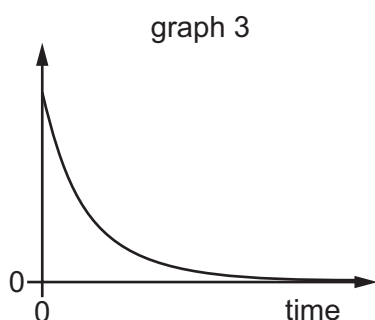
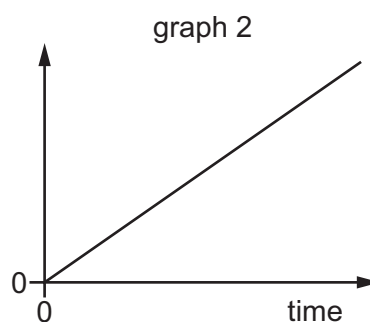
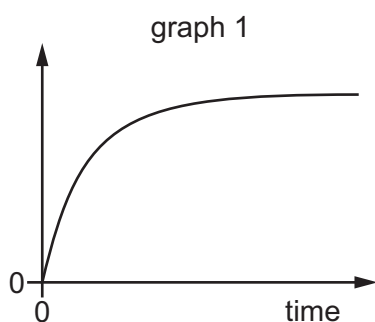
- 8 A person of mass 60 kg stands on accurate bathroom scales, placed on the floor of an elevator (lift) which operates in a tall building.

At a certain instant the bathroom scales read 58 kg.

Which row could give the person's direction of movement and type of motion?

| | direction | motion |
|----------|-----------|----------------|
| A | downwards | constant speed |
| B | downwards | slowing down |
| C | upwards | constant speed |
| D | upwards | slowing down |

- 9 The diagram shows graphs of various quantities plotted against time for an object dropped from a stationary balloon high in the atmosphere.



Which statement could be correct?

- A** Graph 1 is acceleration against time and graph 3 is resultant force against time.
B Graph 1 is acceleration against time and graph 4 is resultant force against time.
C Graph 3 is acceleration against time and graph 1 is velocity against time.
D Graph 3 is acceleration against time and graph 2 is velocity against time.