

SPEED DOT



Speed

- Rate at which an object moves; speed depends on the distance an object moves and the time it takes to move that distance.

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$



Average Speed

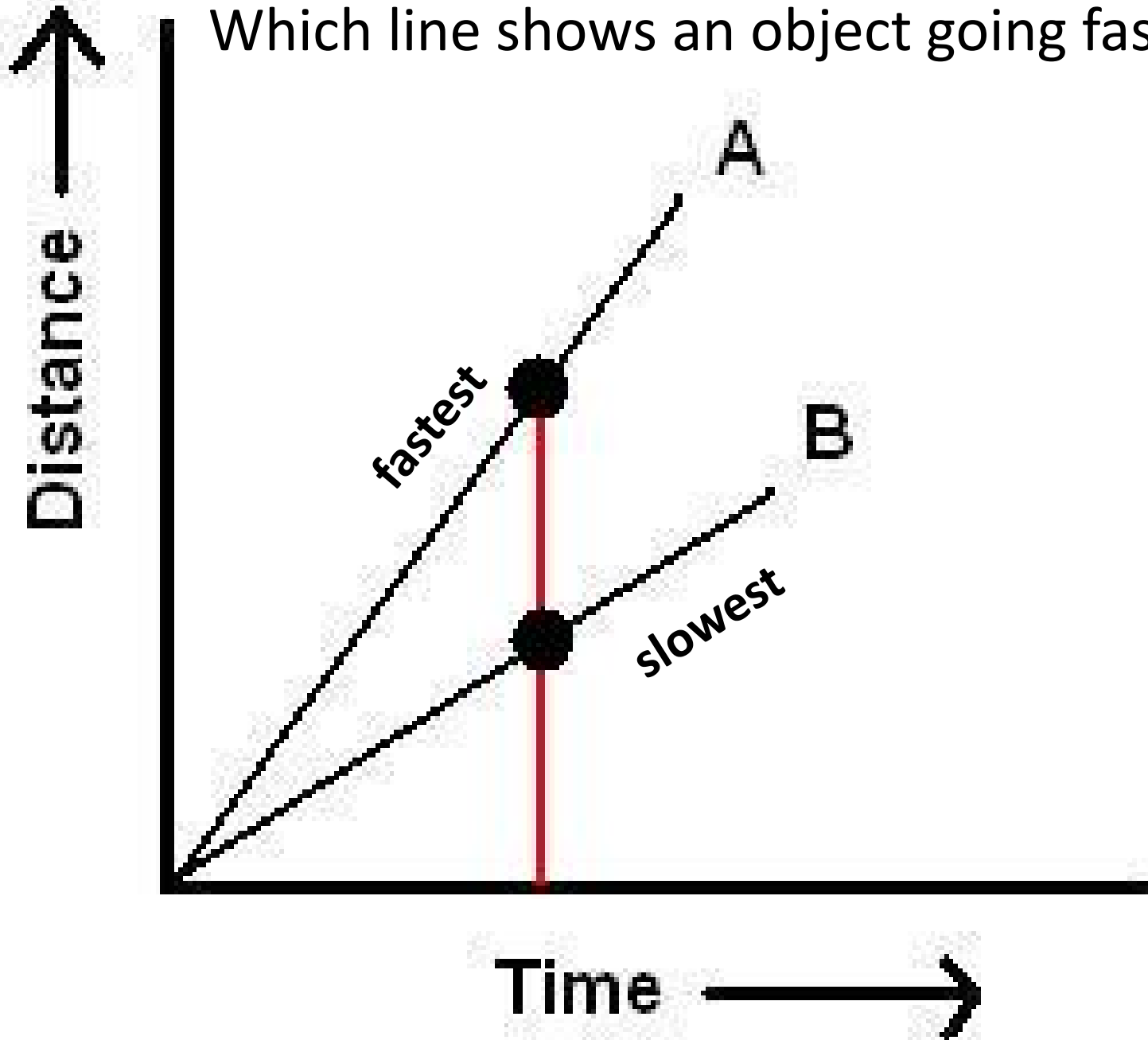
- The average speed is the total distance traveled and the total time it takes to travel that distance.

$$\text{Average speed} = \frac{\text{total distance}}{\text{total time}}$$

Graphing Speed

- A speed graph shows distance (on the y-axis) and time (on the x-axis).

Which line shows an object going fastest?



Distance-time graph

Distance (m)

4

3

2

1

0

1

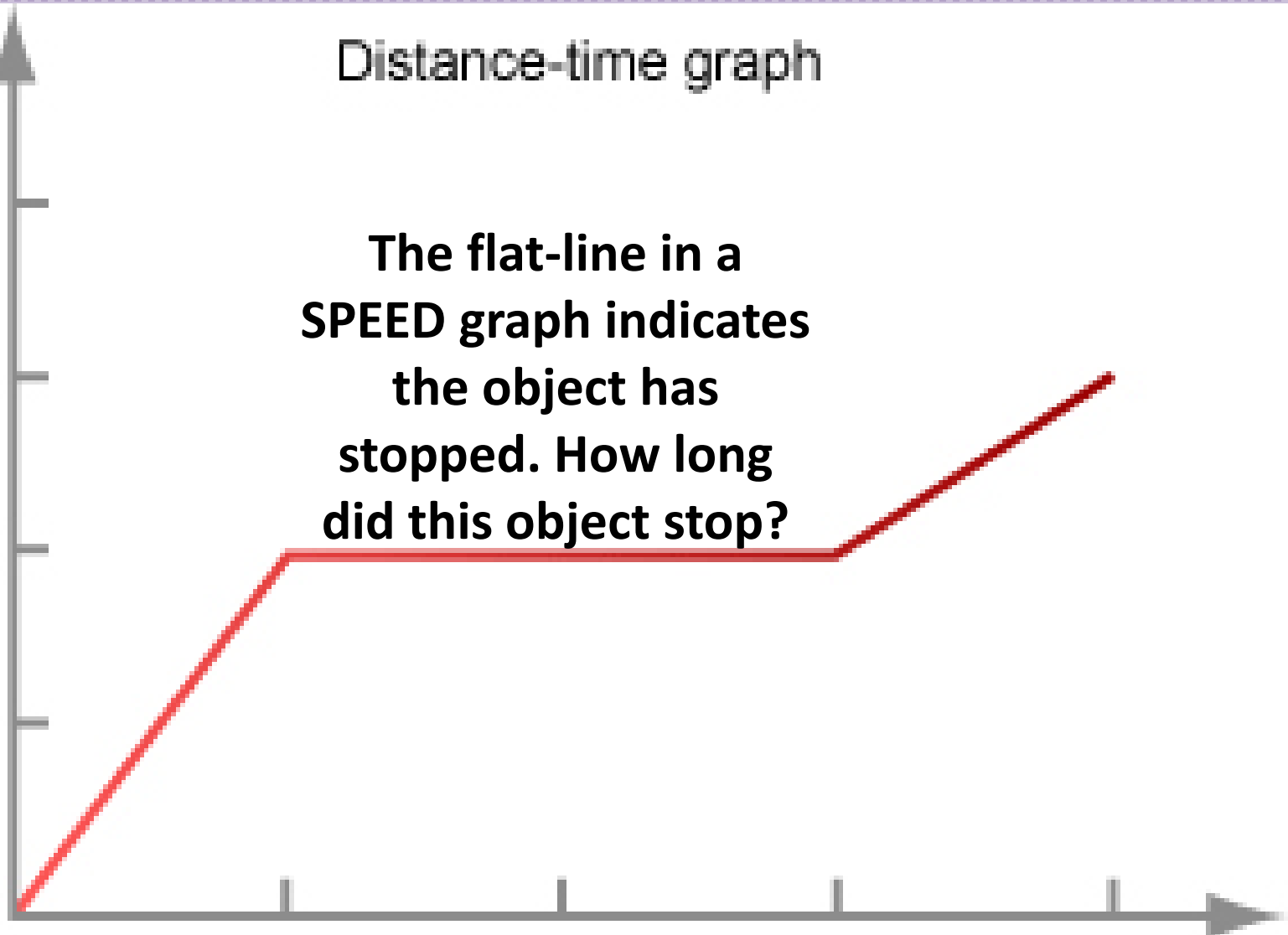
2

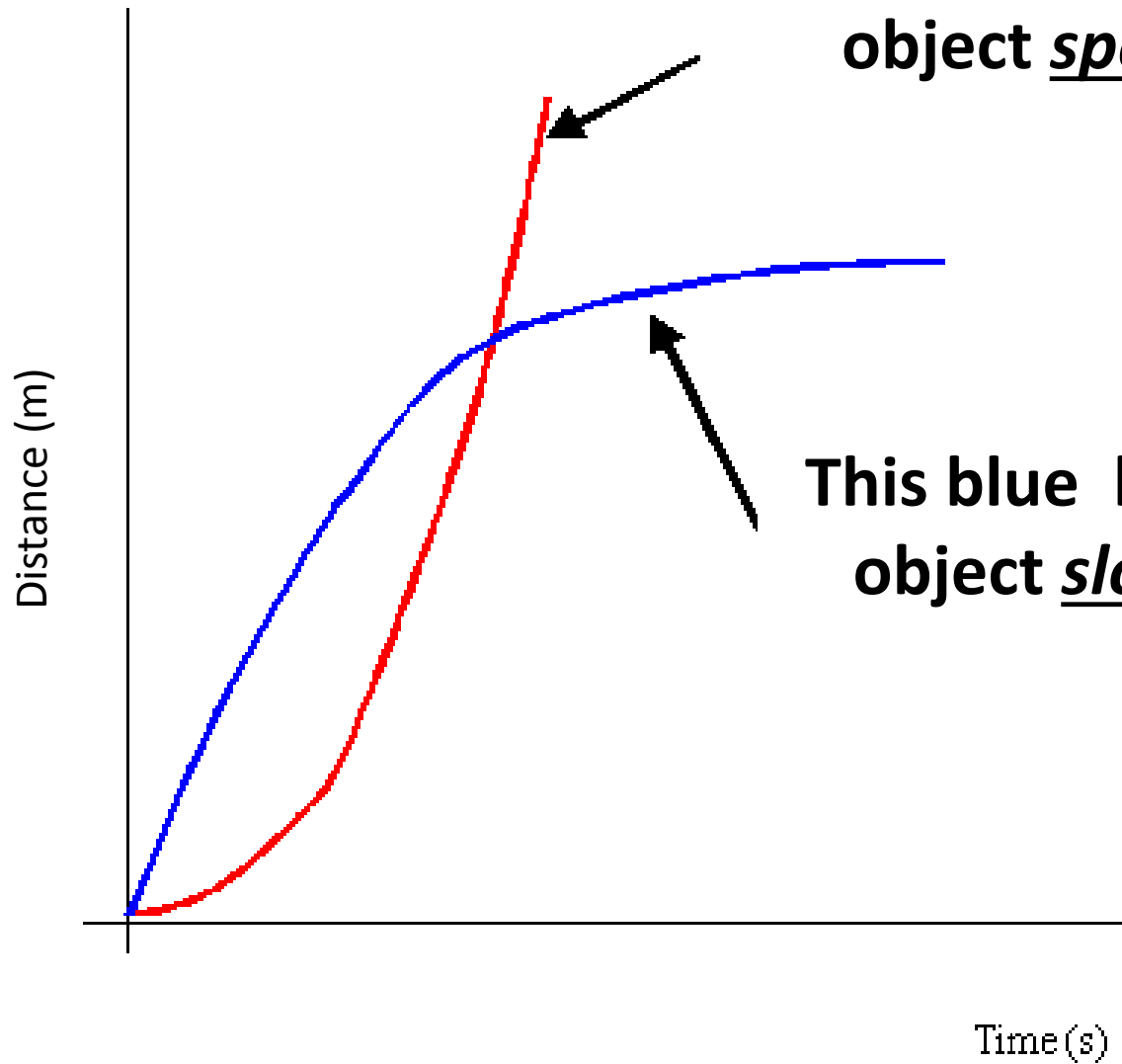
3

4

The flat-line in a
SPEED graph indicates
the object has
stopped. How long
did this object stop?

Time (s)





This red line shows the object speeding up.

This blue line shows the object slowing down.