

The figure shows the position vs. time of two balls, moving on parallel tracks.

- When is one ball passing the other?
- Which ball is moving faster at  $t_4$ ?
- When do the balls have the same  $v$ ?
- Over the period of time shown, which is true of ball II?
  1. It is speeding up all the time.
  2. It is slowing down all the time.
  3. It is speeding up part of the time and slowing down part of the time.

