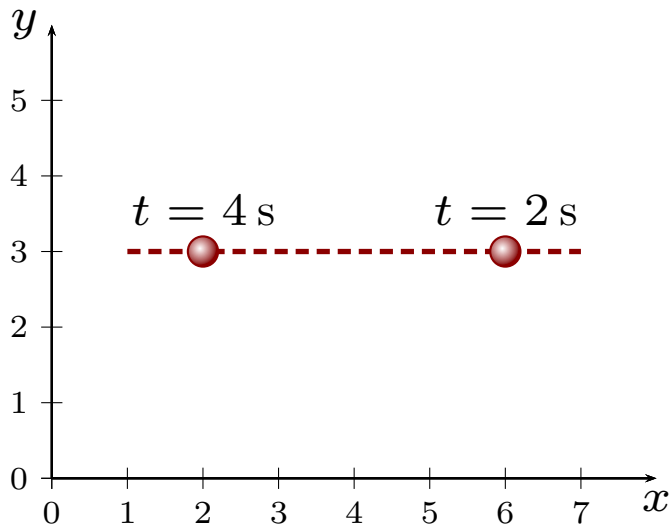


Question 1

A ball follows the indicated trajectory. Its positions (units are meters) at two instants are indicated.

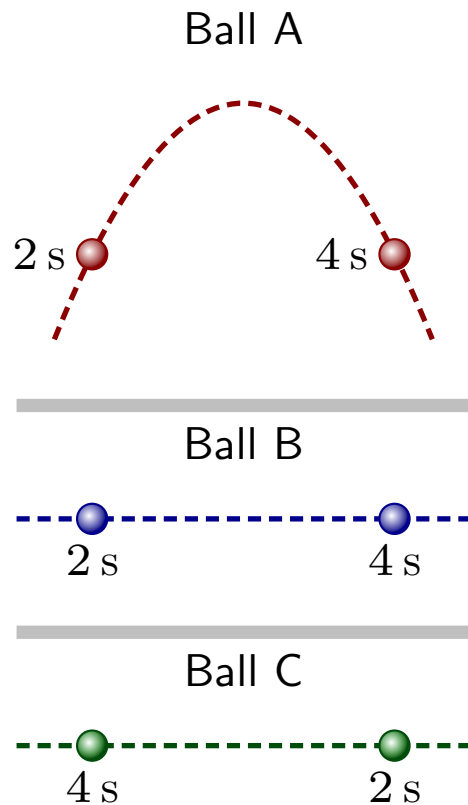


Which of the following best represents its average velocity between the two instants?

1. $\vec{v}_{\text{avg}} = 0.5 \text{ m/s}$
2. $\vec{v}_{\text{avg}} = 2 \text{ m/s}$
3. $\vec{v}_{\text{avg}} = 2 \text{ m/s}$ in direction \rightarrow
4. $\vec{v}_{\text{avg}} = 2 \text{ m/s}$ in direction \leftarrow
5. $\vec{v}_{\text{avg}} = 0.5 \text{ m/s}$ in direction \leftarrow

Question 2

Various balls follow the illustrated trajectories.



Which balls have the same average velocity in the interval from 2 s to 4 s?

1. All have the same.
2. None have the same.
3. A and B.
4. B and C.
5. A and C.