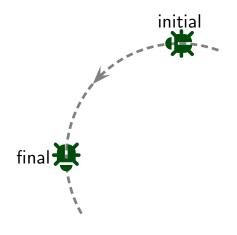
Question 1

A bug moves along a circular arc at a constant speed.



Which of the following is true about the average acceleration from the initial instant to the final instant as illustrated?

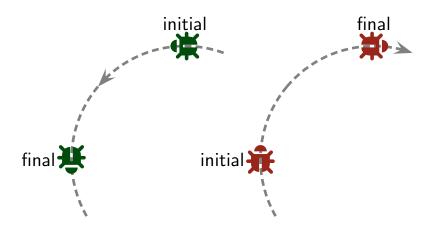
- 1. $\vec{a}_{av} = 0$
- 2. $\vec{a}_{av} \neq 0$ with direction \longleftarrow
- 3. $\vec{a}_{av} \neq 0$ with direction \checkmark
- 4. $\vec{a}_{av} \neq 0$ with direction
- 5. $\vec{a}_{av} \neq 0$ with direction

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Question 2

Two bugs each move along a circular arc at a constant speed but in different directions.

Green: counterclockwise Red: clockwise



Which of the following is true about the direction of the average acceleration from the initial instant to the final instant as illustrated?

