

Chapter 2.1: Speed

Calculus I

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Answer the questions below, assuming that:

- The distance units are centimeters.
- The time between photographs is 0.1 seconds.

When determining distance, it might be easiest to measure from the bottom of the ball. Call the first image of the ball time 0, the next image time 1, and so on.

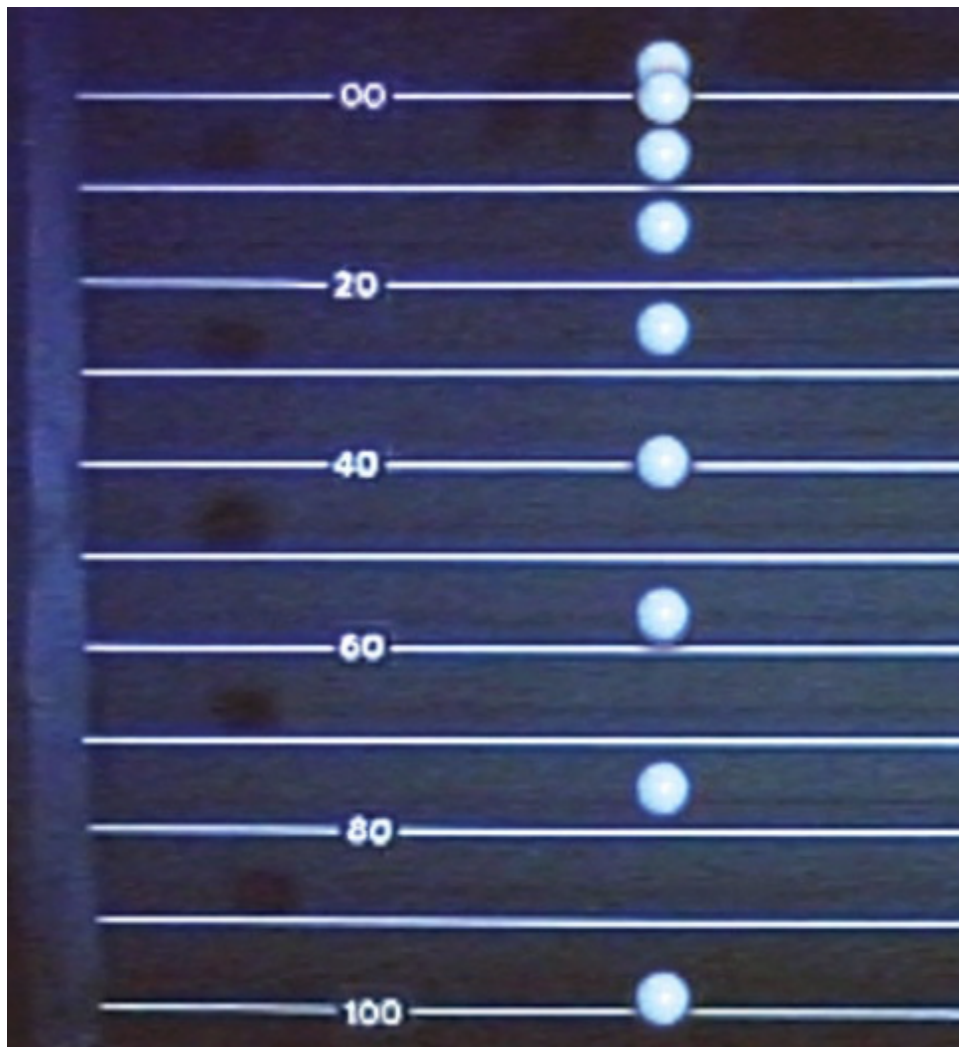


Figure 1: A falling ball.

1. What is the average speed of the ball between time 2 and 8?
2. What is the average speed of the ball between time 6 and 8
3. What is the average speed of the ball between time 7 and 8