

In class problems

- **Question**

- Michael is going to the store 6 miles away. He rides his bike at 12 mph for the first half of the trip, then walks at 4 mph for the remainder.
- Michael's average speed for the trip to the store is **closest** to:
  - 1. 2 mph
  - 2. 4 mph
  - 3. 6 mph
  - 4. 8 mph
  - 5. 10 mph
  - 6. 12 mph
  - 7. 14 mph
  - 8. Exactly halfway between two of the values above
  - 9. Impossible to determine

- Wendy walks 10 m in one direction at 2 m/s, then runs 6 m in the same direction at 6 m/s. Next, she stops for 4 seconds, and finally walks in the opposite direction at 4 m/s for 6 seconds.

- Wendy's average speed is **closest to:**
- 1. 1
- 2 m s
- 2. 1 m s
- 3. 1 1
- 2 m s
- 4. 2 m s
- 5. 2 1
- 2 m s
- 6. 3 m s
- 7. 3 1
- 2 m s
- 8. 4 m s
- 9. the negative of one of the choices above
- 10. impossible to determine

- A ball is thrown straight up into the air. Its position at 7 instants of time are shown in the figure;
- the maximum height is reached at position 4. At which of the labeled points is the **acceleration**
- of the ball **smallest?**
- 1. point 1
- 2. point 2
- 3. point 3
- 4. point 4
- 5. point 5
- 6. point 6
- 7. point 7
- 8. Exactly 2 of the points shown
- 9. More than 2 of the points shown
- 10. Impossible to determine

