

Anna's Quest for Good Pizza

Anna, who considers herself a pizza connoisseur, wanted to find the best pizza on Main Street. She hopped off the bus and decided that she would go to Wildflour Pizza, as it was rated #1 in the L.A. Times (according to the sign out front). Wildflour is located 900 m north of where the bus dropped her off.

- a. Anna started off by jogging at a constant speed. She covered the first 600 m in 4 minutes.
- b. She then paused for a minute to find her phone in her bag after hearing it ring.
- c. Taking the call, she slowly walked and covered the last 300 m in 8 minutes.
- d. She went into Wildflour and ordered a slice. She decided the pizza was *fine*, but not worth all the hype. It was a little too thick for her taste. Altogether she was inside for 5 minutes.
- e. She headed back towards the bus walking briskly. She covered 700 m in 6 minutes.
- f. Suddenly she stopped in front of Bravo Pizza and stared at the slices. That pizza looked so much better! She looked longingly inside for 2 minutes.
- g. She glanced up and saw her bus coming down the street. She sprinted the final 200 m in one minute and got there just in time.

What was Anna's average speed on the way to Wildflour? What was her average velocity?

What was Anna's average speed for the entire journey from the bus stop? What was her average velocity?

Graph Anna's position vs. time and velocity vs. time on the axes provided below.

