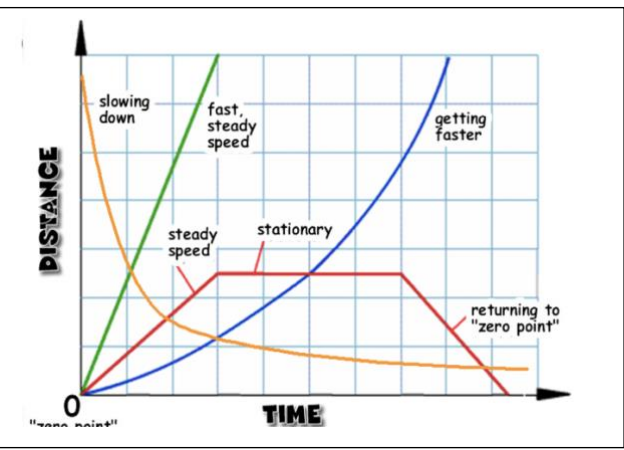


MPM 1D Handout
2.6 Distance-Time Graphs

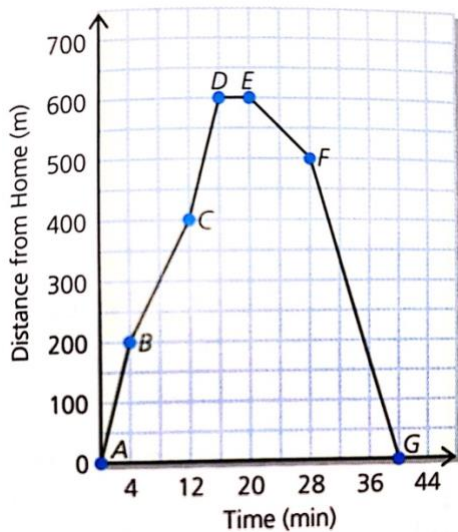
Date:

Name:

- Please use a ruler to create your axes, and plan ahead when choosing your scale!
- Include as much detail as possible in your descriptions, and draw your graphs accurately (label scales, axes, and provide a title!)

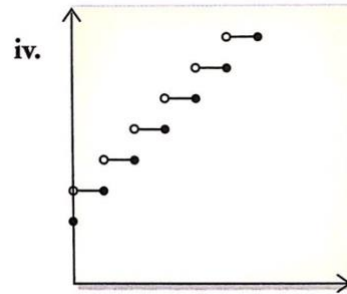
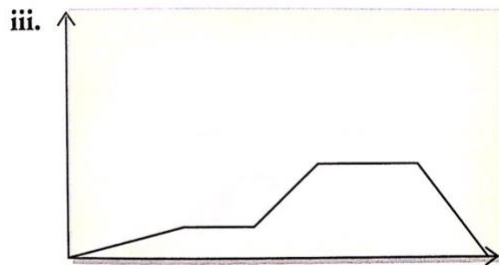
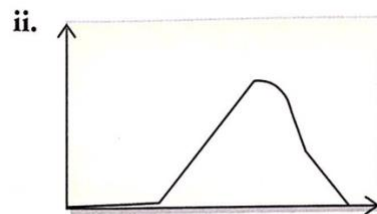
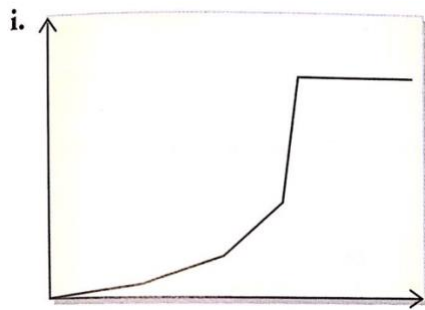


1. Billy’s mother sends him to the corner store for milk and tells him to be back in 30 minutes. Examine the graph and provide a detailed description of Billy’s trip. Did he make it back on time?

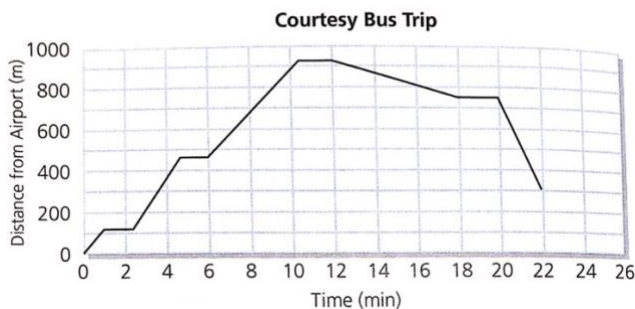


- a. Over what intervals of time was Billy travelling the fastest? Slowest?
- b. When does he reach the store, and how to you know? How long is he there for?
- c. Does he make it home on time?

2. Match each of the following stories with the graph that best matches it. Once you have matched them, label the axes with appropriate titles.
- Trystan walks to school at a steady pace. He waits once for a stop light and continues to school at a faster pace. After being at school, he returns home without stopping or slowing down.
 - A log floating in a slow, steadily moving river goes through two sets of rapids before going over a waterfall into a lake.
 - A taxi driver charges a passenger to get in the cab plus a fixed amount for every 100 m driven.
 - A skydiver enters a plane that takes off and climbs at a steady rate. He jumps out and free falls until the parachute opens. He descends the rest of the way at a constant speed.



3. Write a story to match the graph shown below for a shuttle from an airport to a hotel.. Include distances, times, etc.



4. Draw a graph on the grid provided to represent the story below.

“Joel leaves home and walks quickly at a constant pace the 30 minutes to school. He gets to school and remembers that it is Saturday, so he goes back home at a slower rate. Once Joel gets home, he takes a 15 minute break and then goes to play basketball at the park, which is about half way back toward the school. He plays basketball for an hour and then goes home again.”

