

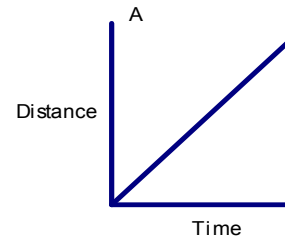
Stories from Graphs

Part I

The following graphs represent different trips Bryn has made walking to and from school. All distances are measured as distances from home. $D = 0$ is at her home, and $t = 0$ is her starting time.

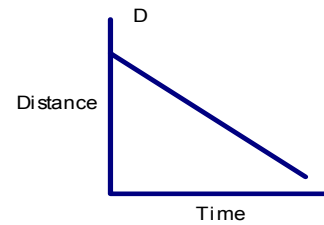
1) What did she do to create a graph that looks like this?

Explain:



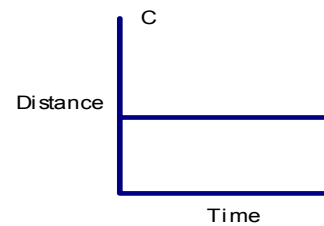
2) What did she do to create a graph that looks like this?

Explain:



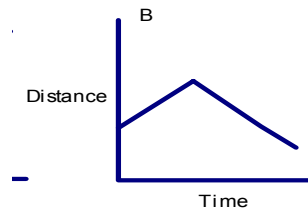
3) What did she do to create a graph that looks like this?

Explain:



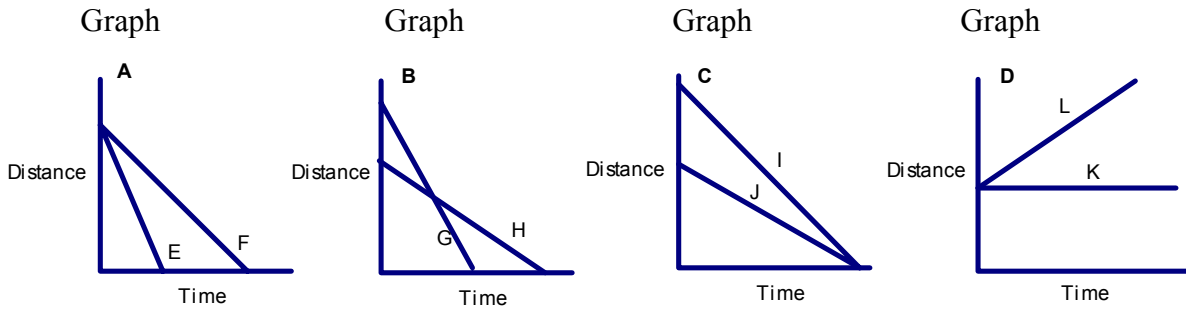
4) What did she do to create a graph that looks like this?

Explain:



Part II

These graphs represent trips taken by two students, a brother and sister. The distance is measured from their home. $D = 0$ is at their home, and $t = 0$ is their starting time.



A) For graph A, answer the following: Which student is walking faster—E or F?

Explain: _____

B) For graph B, which student starts further away, and what does the intersection mean?

Explain: _____

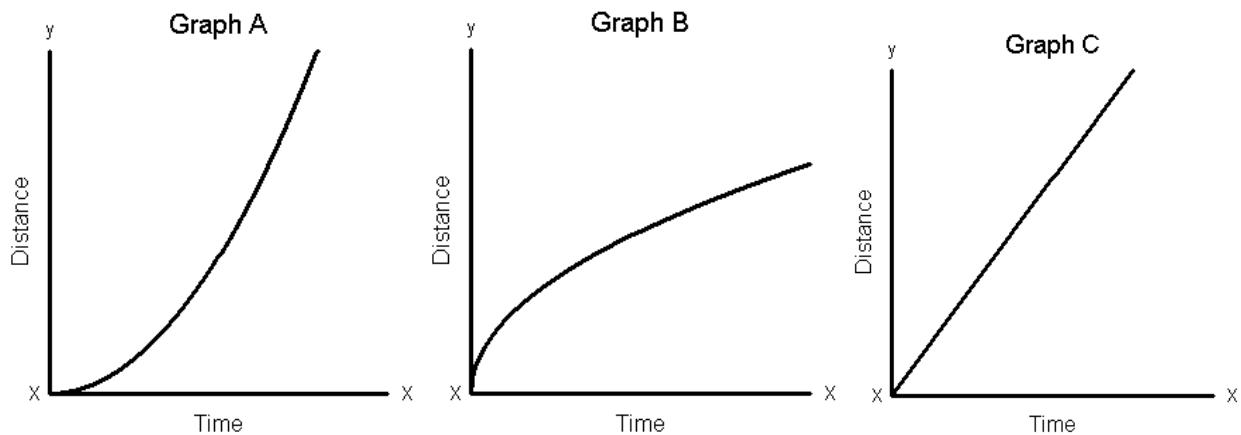
C) For graph C, describe the trips of students I and J?

Explain: _____

D) Describe the similarities and differences in the trips of students K and L.

Extension

It is true that we don't walk at exactly the same speed all the time. The following graphs tell the stories of three different students leaving school. Write a story for the graphs which explains how the three students moved. Be sure that your story includes an explanation of why the first two graphs are curved. (Attach a second piece of paper for your stories.)



A)

B)

C)