*Graphing Motion*

1. Imagine a person walking from a mark on the floor at one end of a room to the wall at the other end of the room and back to the mark on the floor. Draw a graph that would represent the distance the person is from that mark on the floor over a period of time.



2. Suppose now that the person started at one end of the room, walked to a mark on the floor at the other end of the room, and then back to where he/she started. How would this graph look similar to the graph in question 1? How would it look different?



3. Two people start at opposite corners of a room and walk toward each other. As they walk, they slow down as they get closer to one another, pass, and then speed up as they get farther apart. This takes a total of eight seconds. The opposite corners of the room are 20 feet apart. Sketch a graph showing the relationship between time and the distance between the two people.

