Name_____

Eddie and Vero went for a hike. They had a GPS receiver with them. At the start of their hike their altitude was 4100 feet above sea level according to the GPS. After hiking for 500 feet their altitude was 4080 feet. After hiking a total of 1000 feet their altitude was 4060 feet. After 1500 feet the altitude was 4040 feet. After 2000 feet it was 4020 feet. After 2500 feet it was 4000 feet. After 3000 ft. it was 3980 ft. After 3500 ft. it was 3960 ft. After 4000 ft. it was 3940 ft. After 4500 ft. it was 3920 ft. After 5000 ft. it was 3900 ft.

Make a table that shows how altitude depends on distance traveled.

Make a graph of how altitude depends upon distance hiked.
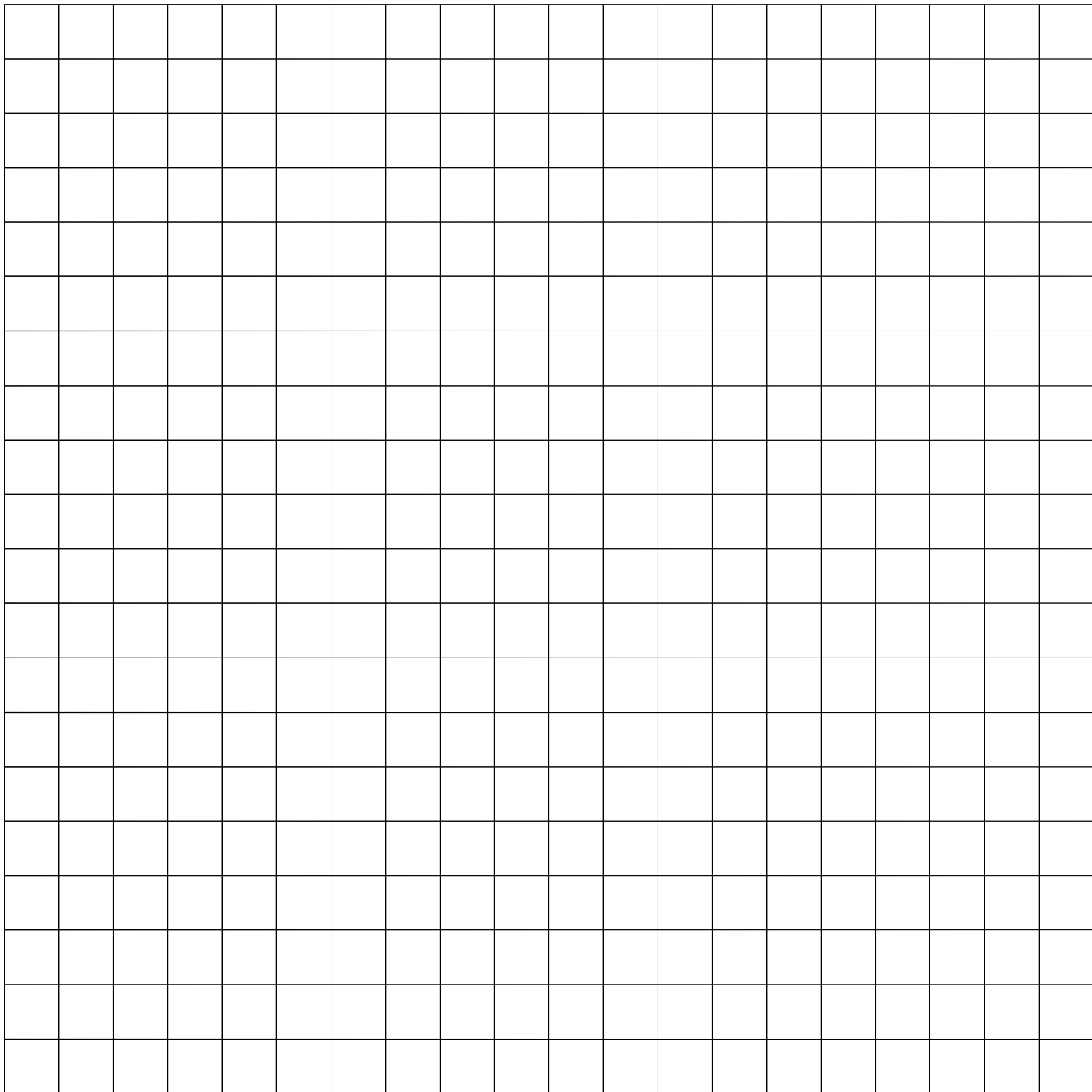
Write an equation that describes how altitude depends upon distance hiked.

Draw a system dynamics diagram that shows how altitude depends upon distance hiked.

Write a statement in words describing how altitude depends upon distance hiked.

Compare your answers with the others in the class.
Who had the steepest slope to hike on?
Who had the least steep slope to hike on?
How would you have answered all of the above questions if the altitude never changed?

What would it mean if the altitude changed and the distance did not?