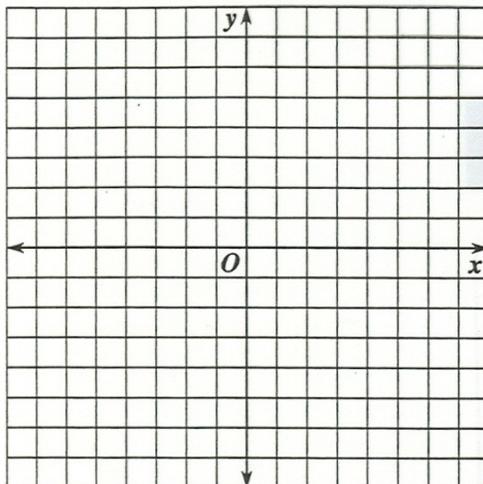


Story

You are supervising the construction of a roller coaster for young children. For the first 20 feet of horizontal distance, the track must rise off the ground at a constant rate. After your crew has constructed five feet of horizontal distance, the track is one foot off the ground.

Table

Graph



Questions

After 20 feet of horizontal distance is constructed, how high will the coaster be?

What is the slope or grade of the roller coaster?

If the construction continued at the current rate, what would be the equation to use to calculate the height H of the coaster in terms of the horizontal distance d constructed?