Last Saturday, on the 9th of July 2005, the Californian extreme scate boarder Danny Way was the first to jump over the Chinese wall with a scate board. It was the highest and longest scateboard jump of all times: Way broak his own record with 24.07 Meters distance and 7.14 meters height. He reached a speed of 55 miles an hour which is about 90 km/h. This is the speed of a car on a freeway.

a) You see the ramp on the picture above. Can you explain why the landing is smooth and soft by drawing the trajectory of the jump.

b) Where will the scater have maximal speed?