SPS Problem of the Week 2/6/2021-2/13/2021

Problem 1. A mountaineer goes up a mountain on Tuesday using a particular path, she starts at the base at 4 in the morning and arrives at the top at 6 in the evening. The next day she starts at the top at 4 and arrives at the base by 6, she follows the same path but at different speeds at different points.

Is there a time where at both days she was at the same point in the path?