

The spacetime diagram represents the motion of two inertial observers that are at the same place at $t=0$.

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1. 4 seconds after they pass each other, what is Liz's position in Ethan's reference frame?
2. If an event happens at $t_{liz} = 3$ s and $x_{liz} = 2$ m, where and when does the event occur in Ethan's reference frame?