

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?