Practice Quiz - Week #7 - 8.022

10 minutes, 10 points total

This is not assigned or required homework. Work on your own, if you wish and check your answers against the provided solutions.

A rod of proper length l_0 is oriented parallel to the x axis and moves with speed u along the same axis of the laboratory frame S. The same rod is observed by an observer on a moving frame S' that moves with velocity v with respect to S and along the same axis x. What is the length of the rod measured by the observer on S'.