

## Cooperative Group Problem Solving: The Bus Chase!

**The following problem will be finalized in a group of 3 (or 4). Your task is to familiarize yourself with the problem, do some thinking, and be a positive contributor to your group when you meet tomorrow (or Monday). You are not responsible for finding the solution individually, but you are responsible for understanding what your group has decided is the final answer. Your final group answer will involve pictures, calculations and words.**

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### The Problem

Just as your car starts from a red light at an intersection, a city bus going 50.0 km/h passes you in the adjacent lane. You want to get ahead of the bus before the next stoplight which is two blocks away. Each block is 65.0 m long. The side streets are 10.0 m wide, while the main avenue you are driving on is 20.0 m wide. You increase your speed at a rate of 7.00 km/h each second. Will you make it?