ASSIGNMENT 1

1. Consider the fuzzy set of *high speeds for racing cars*.
   a. Model it properly, by plotting the membership function and commenting on your choice (2 points).
   b. Determine the support, core and height of the fuzzy set above (2 points).
   c. Show and comment on the intersection of the fuzzy set above and the fuzzy set of non-high speeds (1 point).
2. Write a pseudocode for the addition of two finite fuzzy numbers by the Extension principle (6 points). Note: in case you prefer it, the pseudocode can be replaced by a Scilab code.
3. Show an example of a set-relation composition with a finite fuzzy set representing *medium* and a fuzzy relation *much smaller than*. Elaborate on the outcome (see also section 3.2.1 textbook). You can use the code shared in Practice 3 to get the numerical result (3 points).