

## ASSIGNMENT

1. Consider two triangular fuzzy sets. Apply all the known t-conorms and plot the results to show the difference among the different t-conorms (2 points). Repeat considering two trapezoidal fuzzy sets (2 points).  
(hint: you can modify the `t_norm` Scilab function)
2. Consider the linguistic variable “damage state” (e.g. referred to a bridge or a building). Choose an orthogonal term set (2 points). Apply some linguistic modifiers and check whether the term set is still orthogonal (2 points).
3. Provide an example (not present in the study material or textbooks) of generalized modus ponens (as a guideline, see Example page 41 Lecture 5) (5 points).