Assignment 3

1. Consider the generalized modus ponens in your last homework. Create a Mamdani inference system reflecting it (by using the Scilab FLToolkit) (6 points). Show a numerical result and comment on it (2 points).
2. By using GAs, tackle the minimization problem of the function below, with n=2 (5 points).

Name function	Mathematical definition	Range	f_{min}
Griewank	$f_{11}(x) = \frac{1}{4000}\sum_{i=1}^{n}x_1{}^2 - \prod_{i=1}^{n}\cos\left(\frac{x_i}{\sqrt{i}}\right) + 1$	[−600, 600]	0