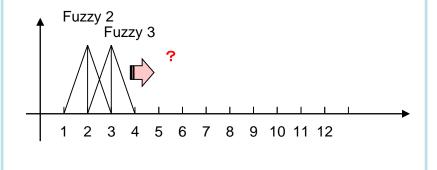
Quizzes for lecture 9

(1) Find the compliment set of A given in Example 5.1.

(2) Using the extension principle, find the membership function of "fuzzy 5", when "fuzzy 2" and "fuzzy 3" are defined below.



(3) Below is a fuzzy rule for controlling a robot based on light sensors.

$$R_s$$
: if $(x_1 = VeryBright \land x_2 = VeryBright \land x_3 = VeryDark \land x_4 = VeryDark)$
then $(y = GoForwardQuickly)$

Suppose that the minimum and maximum values of each sensor are 0 and 1024. Try to define the membership functions for the linguistic values VeryBright and VeryDark.

