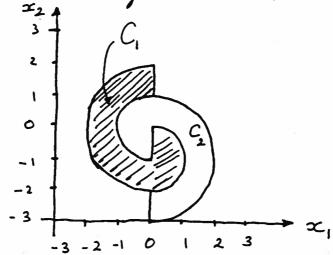
The objective of this experiment is to study a two-dimensional classification public that involves nonconvex decision regions.

The distribution of pattern classes C, & C2 is shown below.

Class C, consists of pattern points inside the area marked C, and Class C2 consists of pattern points inside the area marked C2.

The problem is to design a neural network classifier that decides whether an input pattern belongs to class C, or class C2.



(i) Select a pattern set to be used for training. (ii) Select a pattern set to evaluate the performance of the network after training.

(iii) plot the error performance (learning curves) for the training phase.

(iv) Study the effects of the number of neurous in the hidden layer, the number of hidden layers, the learning and momentum coefficients, data normalization, etc. on the performance and learning speed of the network.