

# The Perceptron

## 1 Learning

### 1.1 Table of successive synaptic weights

Complete the table with the values of the synaptic weights after each update (convergence is achieved after only 3 updates).

	$w_0$	$w_1$	$w_2$
Initial	0	0	0
Update 1			
Update 2			
Update 3			

### 1.2 Graph of examples and separating line

What is the explicit equation of the separating line?

Draw the examples of category 0 in **blue** and the examples of category 1 in **red**.

