Perceptron Classification Tutorial Exercise

Apply PERCEPTRON algorithm in order to find the linear decision functions that can separate the classes $\Omega_1, \Omega_2, \Omega_3$ having elements:

$$\Omega_1:\{[0,0,1]^T\},\$$

$$\Omega_2:\{[1,1,1]^T\},$$

$$\Omega_3:\{[-1,1,1]^T\}.$$

Use $\mathbf{w}_{i}(1) = \mathbf{0}$ for i = 1, 2, 3 and c = 1.