# **QUIZ: Artificial Neural Networks**

#### Pregunta 1:

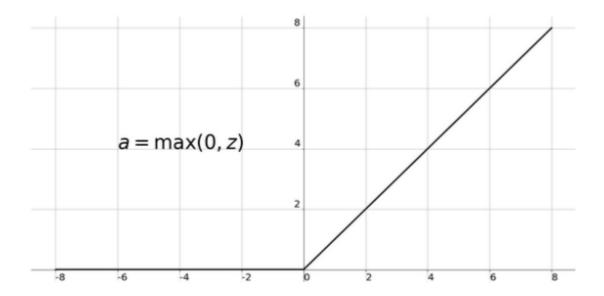
- 1. The weights and biases in a neural network are optimized using:
  - Gradient Descent
  - Logistic Descent
  - O Vanishing Gradient
  - Activation Descent
  - Activation Function

## Pregunta 2:

- 2. For a cost function,  $J=\sum_{i=1}^m (z_i-wx_i-b)^2$ , that we would like to minimize, which of the following expressions represent updating the parameter, w, using gradient descent?
  - $\bigcirc w \rightarrow w + b \eta * \frac{\partial J}{\partial w}$
  - $igotimes w o w + \eta * rac{\partial J}{\partial w}$
  - $\bigcirc w o w \eta * rac{\partial J}{\partial w}$
  - $\bigcirc w o w \eta * x rac{\partial J}{\partial w}$
  - $\bigcirc \ \ w o w \eta * b rac{\partial J}{\partial w}$

## Pregunta 3:

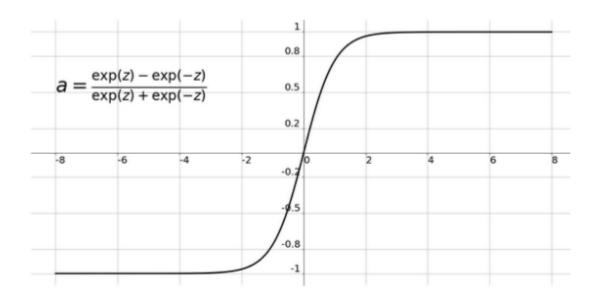
3. What type of activation function is this?



- O Binary Function
- Hyperbolic Tangent Function
- ReLU
- Sigmoid Function
- O Linear Function
- Leaky ReLU

## Pregunta 4:

4. What type of activation function is this?



- O Sigmoid Function
- Leaky ReLU
- O Linear Function
- O Binary Function
- ReLU
- Hyperbolic Tangent Function

## Pregunta 5:

- 5. Softmax activation function is most commonly used in hidden layers?
  - O True
  - False