

✔ Congratulations! You passed!

Grade
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To pass 80% or
higher

Go to next item

1. The weights and biases in a neural network are optimized using:

1 / 1 point

- ☐ Activation Descent
- ☐ Activation Function
- ☐ Logistic Descent
- ☒ Gradient Descent
- ☐ Vanishing Gradient

✔ **Correct**
Correct

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?

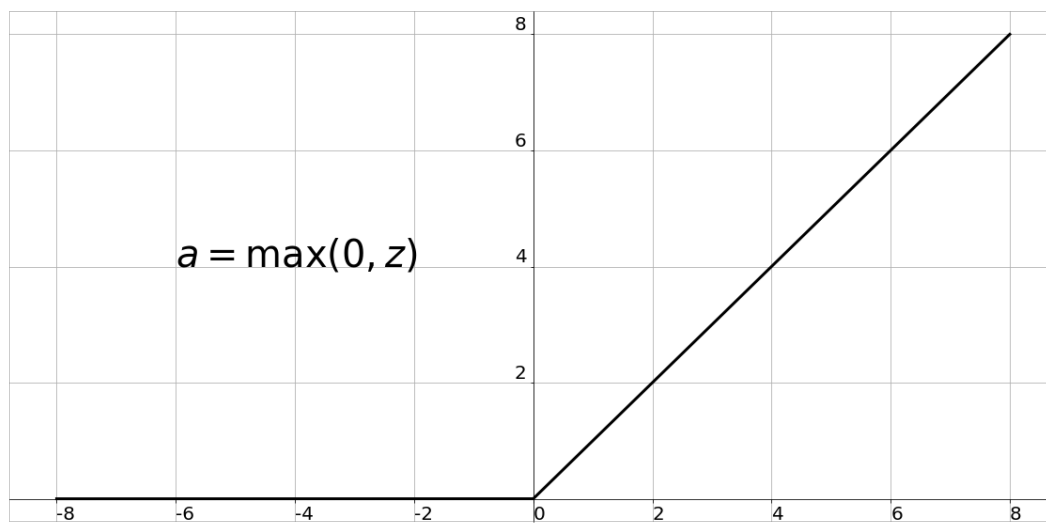
1 / 1 point

- ☐ $w \rightarrow w + b - \eta * \frac{\partial J}{\partial w}$
- ☐ $w \rightarrow w + \eta * \frac{\partial J}{\partial w}$
- ☒ $w \rightarrow w - \eta * \frac{\partial J}{\partial w}$
- ☐ $w \rightarrow w - \eta * x \frac{\partial J}{\partial w}$
- ☐ $w \rightarrow w - \eta * b \frac{\partial J}{\partial w}$

✔ **Correct**
Correct

3. What type of activation function is this?

1 / 1 point

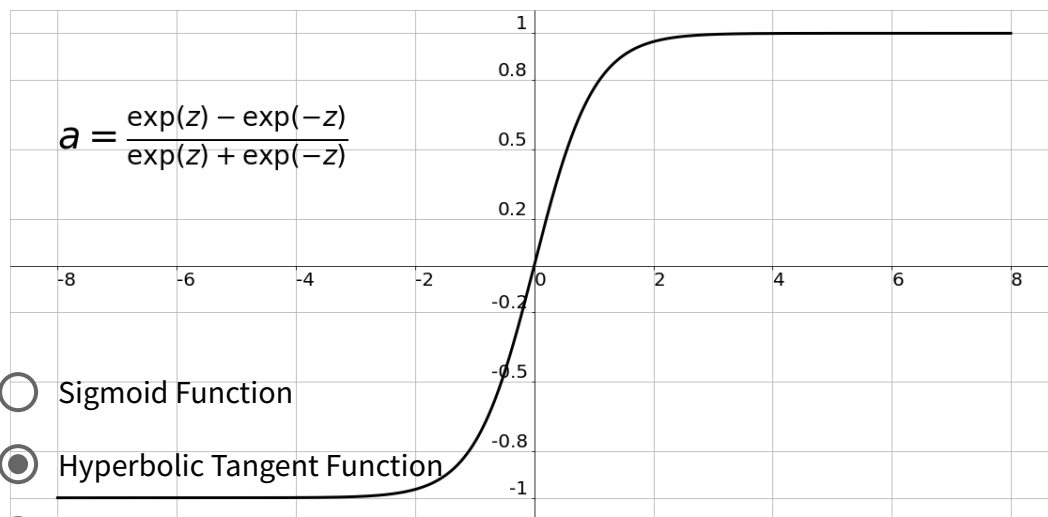


- ☐ Hyperbolic Tangent Function
- ☐ Linear Function
- ☐ Leaky ReLU
- ☒ ReLU
- ☐ Sigmoid Function
- ☐ Binary Function

✓ **Correct**
Correct

4. What type of activation function is this?

1 / 1 point



- ☐ Sigmoid Function
- ☒ Hyperbolic Tangent Function
- ☐ ReLU
- ☐ Binary Function
- ☐ Leaky ReLU
- ☐ Linear Function

☒ **Correct**
Correct

5. Softmax activation function is most commonly used in hidden layers?

1 / 1 point

- ☐ True
- ☒ False

☒ **Correct**
Correct.