Answer the following questions and submit a pdf file with your answers in one week.

1. What’s the difference between feedforward neural networks and recurrent neural networks?
2. Design a neural network with one hidden layer and specify the parameters in this network to approximate the XOR function.
3. What is a logit? What’s the relationship between the logit and the saturation of the sigmoid activation function?
4. Introduce some generalizations of the rectified linear units (ReLU) function.