1. What is the purpose of gradient descent

2. What is a convex function

3. What is the condition number

1. The purpose of gradient descent is to minimize the loss by modifying the weights

2. A convex function is a function in which if a line segment was drawn between any two points that line segment would exist above the values of the function.

3. The condition number reflects how hard a strong convex problem is to solve and ultimately how hard it is to reach the minimum for gradient descent.