## **Partial Derivatives with respect to a**

### **Part 3**

How do we compute partial derivatives?

1. Solving the equation sequentially
   1. Let’s look at the third partial derivative
      1. Here
      2. , as all other terms cancel out.
2. Consider the following output values
   1. Squared error loss
3. Substituting these values in our formulae
4. Now we can calculate the updated value of w212
5. We can repeat this process for each weight.