Calvin AI/ML Handout Feb 21, 2025	Name:
Open figure 2.2 of https://udlbook.github.io/udlfigures/ (following plots by hand (accuracy isn't critical, but try to values (intercept = 1.20, slope = 0.2) for each plot while y with w2 from the ReLU interactive notebook	
a. Plot intercept on the x-axis and loss on the y-axis.	b. Plot slope on the x-axis and loss on the y-axis.
at those points and use them to compute estimates of	to intercept = 1.20 and slope = 0.2. Sketch the tangent lines $\frac{\delta \log s}{\delta \text{ intercept}}$ and $\frac{\delta \log s}{\delta \text{ slope}}$. Write down your estimates below. It how you might adjust the parameters to reduce the loss.
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a. Plot intercept on the x-axis and loss on the y-axis.	b. Plot slope on the x-axis and loss on the y-axis.

2. On both plots above, mark the points corresponding to intercept = 1.20 and slope = 0.2. Sketch the tangent lines at those points and use them to compute estimates of $\frac{\delta \; \text{loss}}{\delta \; \text{intercept}}$ and $\frac{\delta \; \text{loss}}{\delta \; \text{slope}}$. Write down your estimates below. Discuss with your neighbors what this tells you about how you might adjust the parameters to reduce the loss.

Before you leave, pick a couple of these questions to react to:

- 1. What was the most important concept from today for you?
- 2. What was the muddiest concept today?
- 3. How does what we did today connect with what you've learned before?
- 4. What would you like to review or clarify next time we meet?
- 5. What are you curious, hopeful, or excited about?

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