1. We're classifying houses as low/medium/high price based on longitude and latitude using logistic regression. The model outputs 3 scores, one for each class. For 100 houses (processed all at once in a "batch" of samples):

   a. What shape is `X`? `X.shape =`

   b. What shape should `W` (the array of weights) be? `W.shape =`

   c. What shape should `b` (the array of biases) be? `b.shape =`

   d. What shape will the output have? `(X @ W + b).shape =`

2. For one house, if our model outputs scores `[1.0, 2.0, -1.0]` for low/med/high prices:

   Write the steps to convert these scores to probabilities that sum to 1. (You can use words or math notation.)

3. If the true label for this house is "medium", what's the model's **accuracy** and **loss** for this house? (You can use words or math notation.)

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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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