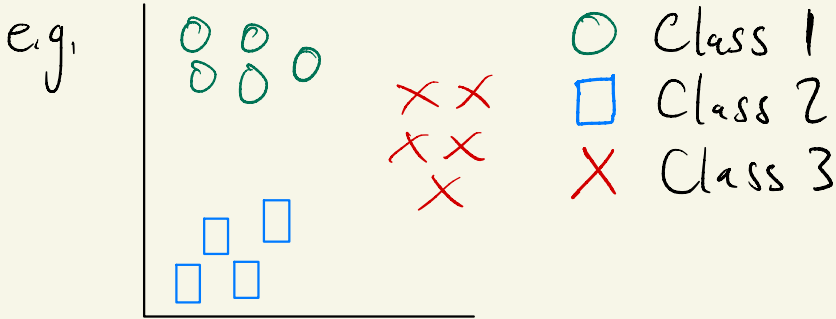


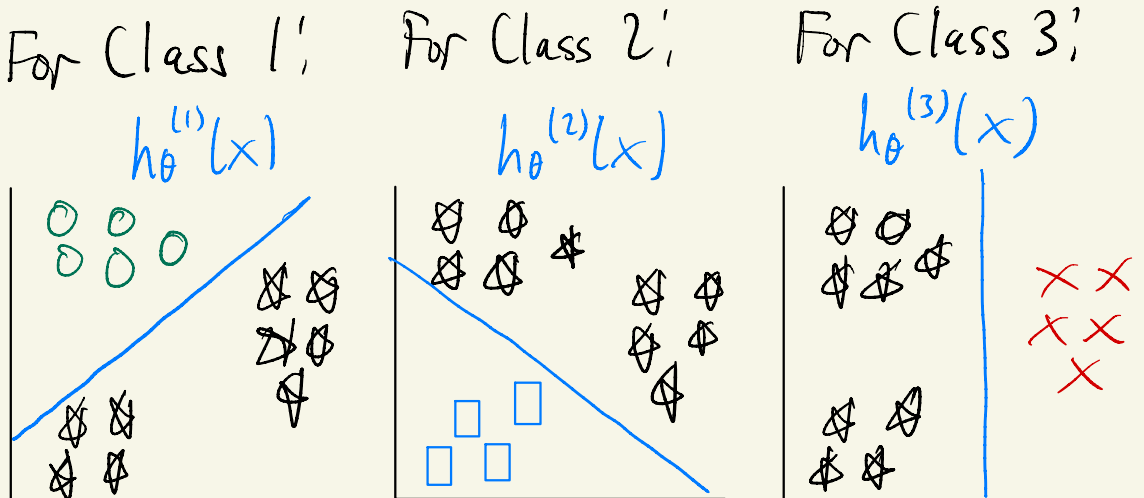

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Multiclass classification problems are those where y can take more than two discrete values.



One-vs-All Classification:

For each class, treat their instances as positive examples and the rest as negative examples.
Then train a logistic regression classifier.



One-vs-all classification involves training a logistic regression classifier $h_{\theta}^{(i)}(x)$ for each class i to predict the probability that $y=i$.

↳ On a new input x , choose the class i that maximizes $h_{\theta}^{(i)}(x)$ to make the prediction.