Understanding Support Vector Machines

TOTAL POINTS 3		
١.	Hinge loss	1/1 point
	Penalizes incorrectly labelled data points that are further from the decision boundary more than the that are closer	se
	 Correct Correct! Hinge loss penalizes data points that are far on the wrong side of the decision boundary. 	
	☐ Is a kind of regression loss	
	Is a convex surrogate for misclassification loss	
	 Correct Correct! Hinge loss is meant to capture important characteristics of misclassification loss while still being convex. 	
	Changes angles for different points	
	☐ Is a differentiable surrogate for misclassification loss	
2.	What is true of the line found by hard-margin SVM on linearly separable data? The line is the same distance from the closest training example from each class. It minimizes misclassifications.	1/1 point
	It's always a two-dimensional line.	
	The line is the same distance to multiple training examples from all the classes.	
	Correct Correct! The maximum minimum margin is the same distance, as long as the data is actually linearly sep	arable.
3.	What package must you import to build Support Vector Machines in scikit-learn? svm ensemble tree linear_model svc	1/1 point
	✓ Correct	