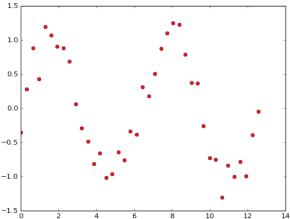
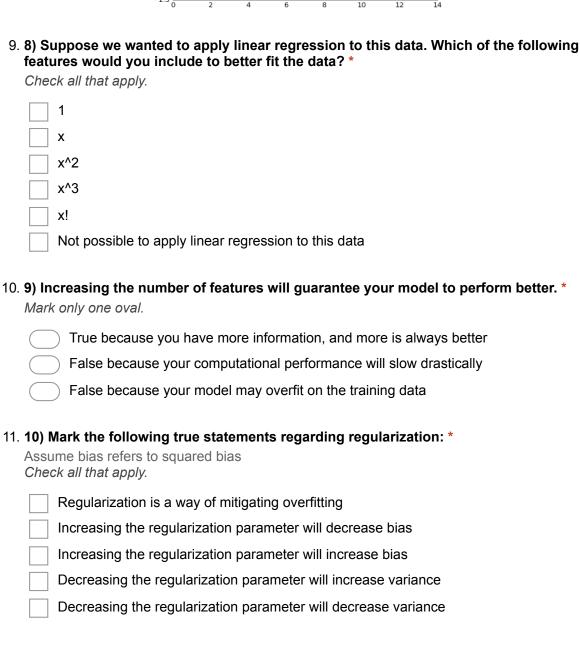
CS150 Quiz11

* Required

·Mea	ne
ivieai	115
Let N	neans is guaranteed to converge within X iterations, where X equals: * be size of data, K is number of centers only one oval.
	1
	10
	K
	N
	None of the above
. 2) The	e best value of K should always be at least 10. *
Mark o	only one oval.
	True
	False
	Not enough information
. 3) K N	leans++ is K-Means with a different way of initializing the centers. *
Mark o	only one oval.
	True
	False

5. 4) Suppose we've already run K-means with k=3, and have the follow centers: {Red=(1, 6), Green=(5, 3), Blue=(2, 2)}. We then receive a new which cluster do you predict it belongs to? * Mark only one oval.	
Red	
Green	
Blue	
None of the above	
6. 5) The Reservoir Sampling algorithm has an approximate runtime of: K = number of centers, N = size of dataset, d = number of dimensions Mark only one oval.	*
O(1)	
O(Kd)	
O(N)	
O(N**2)	
7. 6) K-Means++ initialization will not work if our dataset is too large to a Mark only one oval. True False because we don't need all of the data False because we can use a streaming algorithm to sample our inition Not enough information Linear Regression	
5	
0 2 4	
8. 7) We have two data points (2, 3), (4, 5) and we've computed our regression line as y = ½x + 1. What is our mean squared error? * Write fractional answers as a decimal number.	





Make sure you check the box below.