Batas Waktu 16 Apr pukul 23.59 WIB

Selamat! Anda lulus!

Nilai Nilai Pengiriman diterima 100% Terbaru 100%

UNTUK LULUS 80% atau lebih tinggi Pergi ke item berikutnya

1.	Which of these best describes unsupervised learning?	1 / 1 poin
	O A form of machine learning that finds patterns in data using only labels (y) but without any inputs (x).	
	A form of machine learning that finds patterns using unlabeled data (x).	
	A form of machine learning that finds patterns without using a cost function.	
	A form of machine learning that finds patterns using labeled data (x, y)	
	✓ Benar Unsupervised learning uses unlabeled data. The training examples do not have targets or labels "y". Recall the T-shirt example. The data was height and weight but no target size.	
2.	Which of these statements are true about K-means? Check all that apply.	1/1 poin
	$c^{(i)}$ describes which centroid example i is assigned to. If $K=3$, then $c^{(i)}$ would be one of 1,2 or 3 assuming counting starts at 1.	
	The number of cluster centroids μ_k is equal to the number of examples. If each example x is a vector of 5 numbers, then each cluster centroid μ_k is also going to be a vector of 5 numbers.	
	$igodots$ Benar The dimension of μ_k matches the dimension of the examples.	
3.	 You run K-means 100 times with different initializations. How should you pick from the 100 resulting solutions? ● Pick the one with the lowest cost J ● Pick randomly that was the point of random initialization. ○ Average all 100 solutions together. ○ Pick the last one (i.e., the 100th random initialization) because K-means always improves over time ✓ Benar K-means can arrive at different solutions depending on initialization. After running repeated trials, choose the solution with the lowest cost. 	1/1 poin
4.	You run K-means and compute the value of the cost function $J(c^{(1)},\ldots,c^{(m)},\mu_1,\ldots,\mu_K)$ after each iteration. Which of these statements should be true? On The cost can be greater or smaller than the cost in the previous iteration, but it decreases in the long run.	1/1 poin
	There is no cost function for the K-means algorithm.	
	O Because K-means tries to maximize cost, the cost is always greater than or equal to the cost in the previous iteration.	
	The cost will either decrease or stay the same after each iteration	
	✓ Benar The cost never increases. K-means always converges.	
5.	In K-means, the elbow method is a method to Choose the number of clusters K	1/1 poin
	Choose the best random initialization	
	Choose the maximum number of examples for each cluster	
	Choose the best number of samples in the dataset	
	✓ Benar The elbow method plots a graph between the number of clusters K and the cost function. The 'bend' in the cost curve can suggest a natural value for K. Note that this feature may not exist or be significant in some data sets.	