PROBLEM 1-1 (1/1 point)

"Coefficient of variation" means the coefficient of the polynomial curve that fits the data best.

- ○ True
- ◉ False ✔

Hide Answer *You have used 1 of 1 submissions*

PROBLEM 1-2 (1/1 point)

If we let the k-means clustering algorithm run for a very long time, we will eventually end up with all the data points in one cluster.

- ○ True
- ◉ False ✔

You have used 1 of 1 submissions

PROBLEM 1-3 (1/1 point)

Training an algorithm on data set A and then testing it on a completely separate data set B is an example of unsupervised learning.

- ○ True
- ◉ False ✔

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PROBLEM 1-4 (1/1 point)

Consider an undirected graph with non-negative weights that has an edge between each pair of nodes. The shortest distance between any two nodes is always the path that is the edge between the two nodes.

- ○ True
- ◉ False ✔

You have used 1 of 1 submissions

PROBLEM 1-5 (1/1 point)

A bimodal distribution is a probability distribution with two different modes. For example, exam grades can be bimodal when the students can be classified into one of two groups: either they understand the material or they understand less than half the material. A distribution made up of two normal distributions with equal standard deviations is noticeably

bimodal if the means of each distribution are separated by at least 2 standard deviations.

The following line of python code will produce a bimodal distribution if called repeatedly:

```
random.gauss( 50,10) + random.gauss( 70, 10 )
```

- ○ True
- ◉ False ✔

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