Provide your written answers to the following prompts in the spaces provided. Use whole sentences and clear grammar — answers that are difficult to interpret will lose credit. Please use a text color other than black for your answers. When you have completed the exam, save the document as a PDF, submit it on the course D2L website and email it to dhowell@oru.edu.

Name:		
	Q: What is Data Science? A:	
2.	Q: Why is Data Science an important field, given the current state of technology? A:	
3.	Q: What are the two main types of data covered in this class? Give an example of each. A:	

4. Q: Explain the difference between a regression algorithm and a classification algorithm? What does the output of each algorithm look like?

A:

5. Q: Explain the difference between supervised and unsupervised machine learning. Which type of machine learning works best with a data set which has no clear dependent variable?

A:

6. Q: What does it mean for an algorithm to be computationally expensive? When does computational cost matter and when does it not?

A:

7.	not ne	oose three of the following types of algorithms and explain how they work. You do ed to include the equations used by each algorithm; all that is needed is a simple, ct, and accurate description of the mechanics of the algorithm. Linear Regression:
		Logistic Regression:
		K-means Clustering:
		Random Forest:
		Naïve Bayes:
		Support Vector Machines: