

MTH 325, Quiz #8, Spring 2023 Name _____

Instructions: Answer each question as thoroughly as possible. Round answers to 4 decimal places as needed. Exact answers are best when possible. Be sure to answer all parts of each question.

1. Describe the difference between supervised learning and reinforcement learning.
2. Explain how factor analysis is related to dimensionality reduction.
3. Describe two advantages and at least one disadvantage of ensemble methods.
4. Describe k-fold cross validation and why we use it to validate models.