422 Quiz 1

This is a preview of the published version of the quiz

Started: Jan 20 at 5:21pm

Quiz Instructions

You have 20 minutes to complete this quiz once started. Solutions will be posted after the quiz has closed. It should only take you 10-15 minutes to complete the quiz, but I want to give you enough time to enter the formulas here.

Question 1 — 4 pts

Find the gradient of the following function:

$$f(x,y,z) = 3 + x^2z - 2yz^2 + xy^3 - y^2$$

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12pt Paragraph B I U A T²

p 0 words </>

Question 2

2 pts

I want a model that can predict if a word is a noun or a verb. Is this a classification or regression problem? Why?

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Question 3

2 pts

Are A and B orthogonal? How do you know?

$$A = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix} \quad B = \begin{bmatrix} 4 \\ -3 \\ -2 \\ 2 \end{bmatrix}$$

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Question 4

2 pts

Find the gradient of g at $(1, 2)$:

$$g(x, y) = 3x + 2y^2 + x^2y + 5$$

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622 Quiz 1

This is a preview of the published version of the quiz

Started: Jan 20 at 5:31pm

Quiz Instructions

You have 20 minutes to complete this quiz once started. Solutions will be posted after the quiz has closed. It should only take you 10-15 minutes to complete the quiz, but I want to give you enough time to enter the formulas here.

Question 1 — 4 pts

Find the gradient of the following function:

$$f(x,y,z) = 3 + x^2z - 2yz^2 + xy^3 - y^2$$

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Question 2

2 pts

I want a model that can predict the value of a particular stock. Is this a classification or regression problem? Why?

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Question 3

2 pts

Are A and B orthogonal? How do you know?

$$A = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix} \quad B = \begin{bmatrix} 4 \\ -3 \\ -2 \\ 2 \end{bmatrix}$$

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Question 4

2 pts

Find the gradient of g at $(1, 2)$:

$$g(x, y) = 3x + 2y^2 + x^2y + 5$$

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