

Quiz 2- June 11th in Tutorial

Quiz 2 will cover Sections 2.2-2.4 inclusive except for Theorem 2.36.

The format of this quiz is the standard one for this course: A Definition, an Application and a Proof. It will be written in the last 15 minutes of tutorial.

Definitions and Statements of Theorems: Differentiability, Differentials, Directional Derivatives, Theorem 2.19, Chain rule I and II, Mean Value Theorem III, .

Examples and Applications: 2.2: exercises 1,2,3, 7, example 3 and 4. 2.3: exercises 1,2,3,4,6,7. 2.4 : example 1,

Proofs: Proofs of 2.19 2.23 from 2.2, Proofs of 2.26, 2.37, exercise 4 from 2.3. Proofs for 2.39, 2.40, 2.41, 2.42, exercises 1 and 2 from 2.4.