

MTH 236 Calculus IV Grade Sheet for Colloquium Maple / Poster Project

Names:

Grade / 120 points.

Topic:

Assignment: Complete a visual exploration of an application of either vector-valued functions or functions of several variables in a Maple worksheet. The worksheet should be well organized, well-documented with text cells that explain the mathematics and the Maple computations. Make good use of Maple graphics options. Then construct a poster (and / or other visual aids) to submit to our SJC Undergraduate Colloquium.
Worth 120 assignment points.

Maple Worksheet (/ 70 points)

. Writing (/ 35 points)

Content Criteria

- Maple exploration is well-organized and developed in a coherent order.
- Appropriate topic and well-referenced. Clear, well-stated abstract and introduction.
- Important points covered, concepts defined.
- Topic covered in a thorough, non-superficial, rigorous manner.
- Demonstrated in the worksheet a clear understanding of the mathematics of the topic, and mathematics is correct.
- All appropriate mathematical terms were defined prior to their use.
- As appropriate examples and applications of central ideas.

Comments:

Style, Grammar Criteria:

- Good style, grammar -- spelling, and punctuation, formatting and numbering of sections, figures, theorems, etc.
- Accepted styles of mathematical writing were used.
- Appropriate references used for works cited.

Comments: The mathematics is appropriately written. Include references appropriately cited – more than just the name of one person – what was the actual source?

Effective Use of Maple (/ 35 points)

- Criteria: Maple commands are creatively used to perform computations and illustrate with well constructed plots important ideas visually.

Comments:

Overall Comments:

Poster and Presentation: (/ 50 points)

Criteria:

Poster

- Poster and other visuals for the colloquium convey the exploration clearly and in a visually exciting manner.
- The poster is neatly developed using full resources of computers (including equation editor) to give a professional looking result!

Presenters

- Spoke clearly and effectively and with confidence. Good demeanor and posture.
- Both enthusiasm and interest in topic evident.
- Engaged observers in their presentation.

Comments: