

“THE PIT AND PENDULUM” PORTFOLIO

COVER LETTER FOR “THE PIT AND PENDULUM”

1. Cover Letter Introduction (20 pts)

a. Identify and describe the unit’s central problem

- 0 – No central ideas or inappropriate central problem identified or described
- 1 – Limited, vague, or only somewhat appropriate central problem identified with no description provided
- 2 – Limited, vague central problem identified with minimal description
- 3- Satisfactory central ideas identified with adequate description and minimal reference to specific unit example
- 4 – Excellent statement of central ideas with extensive reference to specific unit examples

b. Describe how you came up with a solution for the central problem

- 0 – No description of solution
- 1 – A limited, incomplete, or vague explanation of how you came up with a solution for the central problem, with no supporting examples
- 2 – A limited explanation of how you came up with a solution for the central problem with a few general supporting examples
- 3 – A satisfactory explanation of how you came up with a solution for the central problem with extensive use of specific supporting examples

c. Describe 2 or 3 key ideas or concepts addressed in this unit and what you’ve learned about them

- 0 – No key ideas or concepts described
- 1 – One vague or incomplete key idea identified with no description about what you’ve learned about them provided
- 2 – One satisfactory key idea identified with a clear description about what you’ve learned about them provided using specific examples
- 3 – Two satisfactory key ideas identified with clear descriptions about what you’ve learned about them provided using specific examples
- 4 – Three satisfactory key ideas identified with a clear descriptions about what you’ve learned about them provided using specific examples

d. Describe how the key ideas/concepts help you to solve the unit problem

- 0 – No description provided
- 1 – Limited, vague description of how the key ideas were used to solve the central problem with no reference to specific examples
- 2 – Limited, vague description of how the key ideas were used to solve the central problem, with minimal reference to specific examples
- 3 – Satisfactory description of the how the key ideas were used to solve the central problem with several references to specific examples
- 4 – Complete and thorough description of the key ideas were used to solve the central problem with extensive reference to specific examples

e. Describe problems in which it would be useful to know each key idea or concept listed above

0 – No description provided

1 – One or two poorly described problems that have a limited description

2- One detailed description of a problem that clearly makes a well supported case for why it would be useful to know the key idea or concept

3- Two detailed descriptions of a problems that clearly makes a well supported cases for why it would be useful to know the key idea or concept for each problem

4 – Three detailed descriptions of a problems that clearly makes a well supported cases for why it would be useful to know the key idea or concept for each problem

2. Explanation for Selected Papers (24 pts)

a. Describe how your selected paper helped you understand one key idea or concept and solve the unit problem (HW 27)

0 – No paper selected

1- Limited, incomplete, or vague description of how selected paper helped you understand a key idea/concept and solve the unit problem with no specific references to paper selected

2- A fair description of how selected paper helped you understand a key idea/concept and solve the unit problem, but description lacks depth and there is little reference to selected paper

3- A good description of how selected paper helped you understand a key idea/concept and solve the unit problem, with some specific references made to selected paper

4- A complete and thorough description of how selected paper helped you understand a key idea/concept and solve the unit problem, and there are extensive references to material in the selected paper

b. Describe how your selected paper helped you understand a second key idea or concept and solve the unit problem(HW 27)

0 – No paper selected

1- Limited, incomplete, or vague description of how selected paper helped you understand a key idea/concept and solve the unit problem with no specific references to paper selected

2- A fair description of how selected paper helped you understand a key idea/concept and solve the unit problem, but description lacks depth and there is little reference to selected paper

3- A good description of how selected paper helped you understand a key idea/concept and solve the unit problem, with some specific references made to selected paper

4- A complete and thorough description of how selected paper helped you understand a key idea/concept and solve the unit problem, and there are extensive references to material in the selected paper

c. Describe how your selected paper paper helped you understand a third key idea or concept and solve the unit problem(HW 27)

- 0 – No paper selected
- 1- Limited, incomplete, or vague description of how selected paper helped you understand a key idea/concept and solve the unit problem with no specific references to paper selected
- 2- A fair description of how selected paper helped you understand a key idea/concept and solve the unit problem, but description lacks depth and there is little reference to selected paper
- 3- A good description of how selected paper helped you understand a key idea/concept and solve the unit problem, with some specific references made to selected paper
- 4- A complete and thorough description of how selected paper helped you understand a key idea/concept and solve the unit problem, and there are extensive references to material in the selected paper

d. Describe why you selected a POW to include in your portfolio

- 0 – No POW selected
- 1 – A limited, incomplete, or vague description of why you selected the POW you included in the portfolio with no specific references to any information in the POW
- 2 – A fair description of why you selected the POW, but lacks depth and there is little reference to specific information in the POW
- 3– A good description of why you selected the POW with some reference and explanation of specific information in the POW
- 4– A complete and thorough description of why you selected the POW, with extensive reference to information that is explained in detail

e. Describe other quality work that represents your “best efforts”

- 0 – No additional paper(s) selected
- 1 – A limited, incomplete, or vague description of how the additional work demonstrates your best effort
- 2 – A fair description of how your additional work demonstrates your best efforts, but lacks depth and there is little reference to specific information in the additional work
- 3 – A good description of how additional work demonstrates your best effort with some references to examples in the work that support your definition of “best work”
- 4 – A complete and thorough description of how additional work demonstrates your best effort with extensive references to examples that support your definition of “best work”

SELECTED PAPERS FROM THE OVERLAND TRAIL (24 pts)

1. Homework #27: Beginning Portfolios

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product
- 2 – in portfolio, is complete with minimal evidence of time and effort
- 3- in portfolio, is complete with satisfactory evidence of time and effort
- 4 – in portfolio, is complete with extensive evidence of time and effort

2. Homework#26: Mathematics and Science

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product
- 2 – in portfolio, is complete with minimal evidence of time and effort
- 3- in portfolio, is complete with satisfactory evidence of time and effort
- 4– in portfolio, is complete with extensive evidence of time and effort

3. Homework #24: Graphing Summary

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product
- 2 – in portfolio, is complete with minimal evidence of time and effort
- 3- in portfolio, is complete with satisfactory evidence of time and effort
- 4– in portfolio, is complete with extensive evidence of time and effort

4. Selected papers that helped you understand three key ideas or concepts and how they helped you solve the unit problem

- 1 – paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort and do not support the fact that you understand three key concepts and how they helped you solve the unit problem
- 2 –paper(s) in portfolio, are complete with minimal evidence of time and effort with limited support that understand three key concepts and how they helped you solve the unit problem
- 3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort with acceptable support that you understand three key concepts and how they helped you solve the unit problem
- 4– paper(s)in portfolio, are complete with extensive evidence of time and effort with extensive evidence that you understand three key concepts and how they helped you solve the unit problem

5. A selected POW from the unit

- 0 – is not in portfolio
- 1 – POW is in portfolio, but is incomplete or had a low overall self-assessment and does not show evidence of a considerable amount of time or effort
- 2 – POW is in portfolio, is complete with minimal evidence of time and effort and a low overall self-assessment score
- 3- POW is in portfolio, is complete with satisfactory evidence of time and effort, however not all scoring areas rated high
- 4 – POW is in portfolio is complete with extensive effort of time and effort and a high overall self-assessment

6. Selected papers for “Other Quality Work”

- 0 – is not in portfolio
- 1- is in portfolio, but is of poor quality and does not support the concept of “best efforts” or have any reason for its addition to the portfolio
- 2 – is in portfolio, but is of limited quality with no definite reason for its addition to the portfolio

- 3 – is in portfolio and is of satisfactory quality with possible reasons for its addition to the portfolio
- 4 – is in portfolio and is of excellent quality with definite reasons for its addition to the portfolio

OTHER THOUGHTS DISCUSSION (pts)

1. Describe how you liked doing science experiments in a mathematics class

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

2. Describe the ideas or concepts you learned about in this unit but would like to better understand

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

3. Describe how you felt about grading yourself and others on group work

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

4. Describe any other thoughts you might like to share about the unit

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

SELF-ASSESSMENT OF PORTFOLIO (4 pts)

a. Grade and Justify your work using a self-assessment scoring rubric

- 0 – Work not graded with rubric
- 1 – Score values provide with no justification
- 2 - Score values provide with minimal rationale and many/most values not acceptable based on scoring guide criteria
- 3 - Scores values provided with fair/good rationales, but some values not

acceptable based on scoring guide criteria

4 - Score values provided with strong rationales, all values acceptable based on scoring guide criteria