

“THE OVERLAND TRAIL” PORTFOLIO

COVER LETTER FOR “THE OVERLAND TRAIL”

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. Identify and describe mathematical ideas addressed in the unit

- 0 – No mathematical concepts identified or described
- 1 – Limited, vague description of 2-3 mathematical concepts or 1 satisfactory description of a concept
- 2 – Limited, vague description of 4-5 mathematical concepts or only 2 satisfactory descriptions of concepts
- 3 – Satisfactory description of 3-4 mathematical concepts with minimal reference to specific unit examples
- 4 – Excellent description of 5-6 mathematical concepts with extensive reference to specific unit examples

c. Describe how the key ideas were developed

- 0 – No key ideas identified or described
- 1 – Limited, vague description of 2-3 key ideas or 1 satisfactory description of a key idea
- 2 – Limited, vague description of 4-5 key ideas or a satisfactory descriptions of 2 key ideas
- 3 – Satisfactory description of 3-4 key ideas with minimal reference to specific unit examples
- 4 – Excellent description of 5-6 key ideas with extensive reference to specific unit examples

d. Describe how the key ideas were used to solve the central 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

2. Explanation for Selected Papers (24 pts)

a. Describe how your selected paper illustrates how a graph can describe a problem situation (HW 29)

- 0 – No paper(s) selected
- 1- Limited, incomplete, or vague description of how selected paper(s) show how a graph can describe a problem situation with no specific references to paper(s) selected
- 2- A fair description of how selected papers show how a graph can describe a problem situation show how a graph can describe a problem situation, but description lacks depth and there is little reference to selected paper(s)
- 3- A good description of how selected paper(s) show how a graph can describe a problem situation, with some specific references made to selected paper(s)
- 4- A complete and thorough description show how a graph can describe a problem situation, and there are extensive references to material in the selected papers

b. Describe how your selected paper illustrates how a graph can be used to make a decision about a problem situation(HW 29)

- 0 – No paper(s) selected
- 1 - Limited, incomplete, or vague description of how a graph can be used to make a decision about a problem with no specific references to paper(s) selected
- 2 - A fair description of how a graph can be used to make a decision about a problem, but description lacks depth and there is little reference to selected paper(s)
- 3 - A good description of how a graph can be used to make a decision about a problem, with some specific references made to selected paper(s)
- 4 - A complete and thorough description of how a graph can be used to make a decision about a problem, and there are extensive references to material in the selected papers

c. Describe how your selected paper illustrated or helped you to understand the meaning or use of variables

- 0 – No paper(s) selected
- 1 - Limited, incomplete, or vague description of how the selected paper illustrated or helped you understand the meaning or use of variables with no specific references to paper(s) selected
- 4 - A fair description of how the selected paper illustrated or helped you understand the meaning or use of variables, but description lacks depth and there is little reference to selected paper(s)
- 5 - A good description of how the selected paper illustrated or helped you understand the meaning or use of variables, with some specific references made to selected paper(s)

- 4 - A complete and thorough description of how the selected paper illustrated or helped you understand the meaning or use of variables, and there are extensive references to material in the selected papers

d. Describe how your selected paper illustrates important points about rates or helped you to understand how to work with rate

- 0 – No paper(s) selected
- 1 - Limited, incomplete, or vague description of how your selected paper illustrated important points about rates or helped you to understand how to work with rate with no specific references to paper(s) selected
- 2 - A fair description of how your selected paper illustrated important points about rates or helped you to understand how to work with rate, but description lacks depth and there is little reference to selected paper(s)
- 3 - A good description of how your selected paper illustrated important points about rates or helped you to understand how to work with rate, with some specific references made to selected paper(s)
- 4 - A complete and thorough description of how your selected paper illustrated important points about rates or helped you to understand how to work with rate, and there are extensive references to material in the selected papers

e. 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

f. 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 PATTERNS (24 pts)

1. Homework #29: Beginning Portfolio Selection

- 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#28: California Reflections

- 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 #13: Situations, Graphs, Tables, and Rules

- 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 paper that helped you to understand the meaning or use of variables

- 0 – is not in portfolio
- 1 – paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort
- 2 –paper(s) in portfolio, are complete with minimal evidence of time and effort
- 3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort
- 4– paper(s)in portfolio, are complete with extensive evidence of time and effort

5. Selected paper that paper illustrates important points about rates or helped you to understand how to work with rate

- 0 – is not in portfolio
- 1 – paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort
- 2 –paper(s) in portfolio, are complete with minimal evidence of time and effort
- 3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort
- 4– paper(s)in portfolio, are complete with extensive evidence of time and effort

6. 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

7. 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

GRAPHING WITH AND WITHOUT CALCULATORS DISCUSSION (32 pts)

1. Describe your reaction to using a graphing calculator

- 0 – No description
- 1 – A limited, incomplete, or vague description with no supporting examples
- 2 – A limited description with a few general supporting examples
- 3- A satisfactory description with several specific, supporting examples
- 4 – A detailed description with extensive supporting examples

2. Describe the advantages of using the calculator to make graphs

- 0 – No description
- 1 – A limited, incomplete, or vague description with no supporting examples
- 2 – A limited description with a few general supporting examples
- 3- A satisfactory description with several specific, supporting examples
- 4 – A detailed description with extensive supporting examples

3. Describe the advantage of doing graphs by hand

- 0 – No description
- 1 – A limited, incomplete, or vague description with no supporting examples
- 2 – A limited description with a few general supporting examples
- 3- A satisfactory description with several specific, supporting examples
- 4 – A detailed description with extensive supporting examples

4. Describe how approach helped in your understanding of graphs and your ability to solve problems

- 0 – No description
- 1 – A limited, incomplete, or vague description with no supporting examples
- 2 – A limited description with a few general supporting examples
- 3- A satisfactory description with several specific, supporting examples
- 4 – A detailed description with extensive 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