

“SHADOWS” PORTFOLIO

COVER LETTER FOR “SHADOWS”

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 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 in the unit

- 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 papers helped you understand the concept of similarity and how to use it(HW 25)

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

b. Describe how your selected papers were important in developing the key ideas of this unit

- 0 – No paper(s) selected
- 1 - Limited, incomplete, or vague description of how selected paper(s) helped you develop the key ideas of the unit, with no specific references to paper(s) selected
- 2- A fair description of how selected papers helped you develop the key ideas of the unit, but description lacks depth and there is little reference to selected paper(s)
- 3 - A good description of how selected paper(s) helped you develop the key ideas of the unit, with some specific references made to selected paper(s)
- 4 -A complete and thorough description of how selected papers helped you develop the key ideas of the unit, and there are extensive references to material in the selected papers

c. Describe why you selected this 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

d. 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 SHADOWS(24 pts)

1. Homework #25: 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. Selected papers that helped you understand similarity

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort or that you understand similarity
- 2 – in portfolio, is complete with minimal evidence of time and effort or that you understand similarity
- 3- in portfolio, is complete with satisfactory evidence of time and effort and that you understand similarity
- 4 – in portfolio, is complete with extensive evidence of time and effort and that you understand similarity and could use the concept in other problems

3. Selected papers that were important in developing the key idea of this unit

- 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 how the selected papers were important in developing the key idea of the unit
- 2 –paper(s) in portfolio, are complete with minimal evidence of time and effort to support the fact that you understand how the selected papers were important in developing the key idea of the unit
- 3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort and support the fact that you understand how the selected papers were important in developing the key idea of the unit
- 4– paper(s)in portfolio, are complete with extensive evidence of time and effort and support the fact that you understand how the selected papers were important in developing the key idea of the unit

4. 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

5. 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

END-OF-YEAR-REVIEW (pts)

1. Describe how this year’s math class was different from your previous work in mathematics

- 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 how this year’s math experience was different from the ways you previously learned mathematics

- 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 changed personally as a result of this years experience in the IMP Program

- 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 how this years experience in the IMP Program affected your confidence in your own ability

- 0 – N o 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

5. Describe how this years experience in the IMP Program helped you in terms of your work with others

- 0 – N o 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

6. Describe your mathematical goals for the rest of your high school years

- 0 – N o 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

7. Describe how your mathematical goals have changed over the past year, and why

- 0 – N o 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

8. Describe any other thoughts you might like to share about the year

- 0 – N o 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 rational 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