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| --- | --- | --- | --- | --- |
| **Problem Solving** | 1 - Does not meet | 2 - Partially Meets | 3 - Meets | 4 - Exceeds |
| Interpretation | Did not understand the concepts and didn’t attempt all parts of the problem. | Demonstrated an understanding of some of the concepts. Didn’t answer all the parts of the problem. | Demonstrated an understanding of most of the concepts. Answered all the parts of the problem completely. | Demonstrated a thorough understanding of the concepts. Answered all the parts of the problem completely. |
| Strategy | Did not use a strategy that was useful in solving the problem. | Used an inappropriate strategy. Relied on guess and check. | Used an appropriate strategy. Failed to justify strategy and/or verify solution. | Used an appropriate strategy along with algebraic methods to solve the problem. Verified using a different strategy. |
| Accuracy | Arrived at the incorrect solution. Made many mistakes. | Made some mistakes in calculations. | Made a few minor careless errors. | Made no mathematical mistakes and arrived at the correct answer. |
| **Communication** |  |  |  |  |
| Completeness | Included little or no explanation of the problem-solving process. | Didn’t explain the problem-solving process well. Left out important tables, graphs, or equations. | Explained most of the parts of the problem-solving process thoroughly or included relevant tables, graphs, and equations. | Explained all the parts of the problem-solving process thoroughly and included relevant tables, graphs, and equations. |
| Clarity | No introduction or conclusion. Difficult to follow. Made lots of grammatical and spelling errors. Many typos. | Omitted introduction or conclusion. Some grammatical and spelling errors. Organization needs improvement. | Omitted introduction or conclusion. Very few grammatical and spelling errors. Well-organized and easy to follow. | Included an introduction, body, and conclusion. No grammatical or spelling errors. Well-organized, easy to follow, nicely formatted. |
| Reflection | Included no reflection. | Included one reflection. | Included two reflections. | Included three reflections. |
| **Examples of a Reflection**  Included rough draft, feedback, revision Commented on the reasonableness of solution.  Connected the problem to another problem or experience. Extended the problem beyond what was asked. | | | | |
| **Essentials! (1 point)** Times New Roman Font Double-spaced Name of problem Your name | | | | |

POW Rubric - adapted from http://mathforum.org Preston – Unity College