

	<b>Emerging (1 point)</b>	<b>Developing (2 points)</b>	<b>Proficient (3 points)</b>	<b>Exemplary (4 points)</b>
<p><b>Conceptual Understanding</b></p> <p><b>Key Question:</b> <i>Does the student’s interpretation of the problem using mathematical representations and procedures accurately reflect the important mathematics in the problem?</i></p>	<ol style="list-style-type: none"> <li>Your mathematical representations of the problem were incorrect.</li> <li>You used the wrong information in trying to solve the problem.</li> <li>The mathematical procedures you used would not lead to a correct solution.</li> <li>You used mathematical terminology incorrectly</li> </ol>	<ol style="list-style-type: none"> <li>Your choice of forms to represent the problem was inefficient or inaccurate.</li> <li>You used some but not all of the relevant information from the problem.</li> <li>The mathematical procedures you used would lead to a partially correct solution.</li> <li>You used mathematical terminology imprecisely.</li> </ol>	<ol style="list-style-type: none"> <li>Your choices of mathematical representations of the problem were appropriate.</li> <li>You used all relevant information from the problem in your solution.</li> <li>The mathematical procedures you chose would lead to a correct solution.</li> <li>You used mathematical terminology correctly.</li> </ol>	<ol style="list-style-type: none"> <li>Your choice of mathematical representations helped clarify the problem’s meaning.</li> <li>You uncovered hidden or implied information not readily apparent.</li> <li>You chose mathematical procedures that would lead to an elegant solution.</li> <li>You used mathematical terminology precisely.</li> </ol>
<p><b>Strategies &amp; Reasoning</b></p> <p><b>Key Question:</b> <i>Is there evidence that the student proceeded from a plan, applied appropriate strategies, and followed a logical and verifiable process toward a solution?</i></p>	<ol style="list-style-type: none"> <li>Your strategies were not appropriate for the problem.</li> <li>You didn’t seem to know where to begin.</li> <li>Your reasoning did not support your work.</li> <li>There was no apparent relationship between your representations and the task</li> <li>There was no apparent logic to your solution.</li> <li>Your approach to the problem would not lead to a correct solution.</li> </ol>	<ol style="list-style-type: none"> <li>You used an oversimplified approach to the problem.</li> <li>You offered little or no explanation of your strategies.</li> <li>Some of your representations accurately depicted aspects of the problem.</li> <li>You sometimes made leaps in your logic that were hard to follow. 5. Your process led to a partially complete solution.</li> </ol>	<ol style="list-style-type: none"> <li>You chose appropriate, efficient strategies for solving the problem.</li> <li>You justified each step of your work.</li> <li>Your representation(s) fit the task.</li> <li>The logic of your solution was apparent.</li> <li>Your process would lead to a complete, correct solution of the problem.</li> </ol>	<ol style="list-style-type: none"> <li>You chose innovative and insightful strategies for solving the problem.</li> <li>You proved that your solution was correct and that your approach was valid.</li> <li>You provided examples and/or counterexamples to support your solution.</li> <li>You used a sophisticated approach to solve the problem.</li> </ol>
<p><b>Computation &amp; Execution</b></p> <p><b>Key Question:</b> <i>Given the approach taken by the student, is the solution performed in an accurate and complete manner?</i></p>	<ol style="list-style-type: none"> <li>Errors in computation were serious enough to flaw your solution.</li> <li>Your mathematical representations were inaccurate.</li> <li>You labeled incorrectly.</li> <li>Your solution was incorrect.</li> <li>You gave no evidence of how you arrived at your answer.</li> </ol>	<ol style="list-style-type: none"> <li>You made minor computational errors</li> <li>Your representations were essentially correct but not accurately or completely labeled.</li> <li>Your inefficient choice of procedures impeded your success.</li> <li>The evidence for your solution was inconsistent or unclear</li> </ol>	<ol style="list-style-type: none"> <li>Your computations were essentially accurate.</li> <li>All visual representations were complete and accurate.</li> <li>Your solution was essentially correct.</li> <li>Your work clearly supported your solution.</li> </ol>	<ol style="list-style-type: none"> <li>All aspects of your solution were completely accurate.</li> <li>You used multiple representations for verifying your solution</li> <li>You showed multiple ways to compute your answer.</li> </ol>
<p><b>Communication</b></p> <p><b>Key Question:</b> <i>Was I able to easily understand the student’s thinking or did I have to make inferences and guesses about what they were trying to do?</i></p>	<ol style="list-style-type: none"> <li>I couldn’t follow your thinking</li> <li>Your explanation seemed to ramble.</li> <li>You gave no explanation for your work.</li> <li>You did not seem to have a sense of what your audience needed to know.</li> <li>Your mathematical representations did not help clarify your thinking.</li> </ol>	<ol style="list-style-type: none"> <li>Your solution was hard to follow in places.</li> <li>I had to make inferences about what you meant in places.</li> <li>You weren’t able to sustain your good beginning.</li> <li>Your explanation was redundant in places.</li> <li>Your mathematical representations were somewhat helpful in clarifying your thinking.</li> </ol>	<ol style="list-style-type: none"> <li>I understood what you did and why you did it.</li> <li>Your solution was well organized and easy to follow.</li> <li>Your solution flowed logically from one step to the next.</li> <li>You used an effective format for communicating.</li> <li>Your mathematical representations helped clarify your solution.</li> </ol>	<ol style="list-style-type: none"> <li>Your explanation was clear and concise.</li> <li>You communicated concepts with precision.</li> <li>Your mathematical representations expanded on your solution.</li> <li>You gave an in-depth explanation of your reasoning.</li> </ol>