

		1 point	¾ point	½ point	¼ point	0 points
		Exemplary	Proficient	Developing	Needs Improvement	Not Demonstrated
Reasoning	Complete understanding of the math topic	Mostly understands the math topic	Somewhat understands the math topic	Limited understanding of the math topic	No understanding of the math topic	
	Diagrams, symbols, graphs, and/or other models and tools are consistently used appropriately to support statements, and use adds to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are used appropriately to support statements, but more consistent use would add to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are attempted to be used appropriately to support statements, but use only somewhat adds to richness and precision of work.	Minimal effort to use diagrams, symbols, graphs, and/or other models and tools appropriately to support statements. Use does not add to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are not used appropriately to support statements.	
Accuracy	All parts are correct/complete.	All but 1 part is correct/complete.	More than 1 part is correct/complete.	Only 1 part is correct/complete.	No part is correct/complete.	
	Includes precise and clear reasons/examples to support ideas. Uses ample mathematical terms/vocabulary in an appropriate manner.	Includes reasons/examples to support ideas. Uses mathematical terms/vocabulary in an appropriate manner.	Includes some reasons/examples to support ideas, but reasons/examples may not be clear.	Minimal effort to include reasons/examples to support ideas. Uses limited and/or inappropriate mathematical terms/vocabulary.	Includes no reasons/examples to support ideas. Uses very limited mathematical terms/vocabulary.	

Computation	Shows all calculations; no careless errors.	Shows all calculations; one careless error.	Shows most calculations; one careless error.	Shows some calculations; two careless errors.	Shows no calculations OR more than two careless errors.
	Effectively demonstrates required skills. Errors are minimal and do not interfere with meaning and understanding.	Sufficiently demonstrates required skills. Errors may interfere at times with meaning and understanding.	Demonstrates most of the required skills. Errors somewhat interfere with meaning and understanding.	Demonstrates some of the required skills. Errors interfere with meaning and understanding.	Demonstrates none of the required skills. Errors greatly interfere with meaning and understanding.
Explain	Extremely detailed; Complete mastery of the required skills	Somewhat detailed; Complete mastery of the required skills	Somewhat detailed; Some mastery of the required skills	Limited details; Some mastery of the required skills	No details; No mastery of the required skills
	Writing contains sufficient and meaningful detail to demonstrate a thorough understanding of the concepts.	Writing contains sufficient detail to demonstrate understanding of the concepts. Additional detail would enhance the work.	Writing contains detail to demonstrate some understanding of the concepts. Additional detail is needed.	Minimal attempt to explain or justify work. Writing contains insufficient detail to demonstrate an understanding of the concepts.	No attempt to explain or justify work. Writing contains little to no detail and does not demonstrate an understanding of the concepts.

	1 point	$\frac{3}{4}$ point	$\frac{1}{2}$ point	$\frac{1}{4}$ point	0 points
	Exemplary	Proficient	Developing	Needs Improvement	Not Demonstrated
R Reasoning	Complete understanding of the math topic	Mostly understands the math topic	Somewhat understands the math topic	Limited understanding of the math topic	No understanding of the math topic
A Accuracy	All parts are correct/complete.	All but 1 part is correct/complete.	More than 1 part is correct/complete.	Only 1 part is correct/complete.	No part is correct/complete.
C Computation	Shows all calculations; no careless errors.	Shows all calculations; one careless error.	Shows most calculations; one careless error.	Shows some calculations; two careless errors.	Shows no calculations OR more than two careless errors.
E Explain	Extremely detailed; Complete mastery of the required skills	Somewhat detailed; Complete mastery of the required skills	Somewhat detailed; Some mastery of the required skills	Limited details; Some mastery of the required skills	No details; No mastery of the required skills

	1 point	¾ point	½ point	¼ point	0 points
	Exemplary	Proficient	Developing	Needs Improvement	Not Demonstrated
R Reasoning	Diagrams, symbols, graphs, and/or other models and tools are consistently used appropriately to support statements, and use adds to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are used appropriately to support statements, but more consistent use would add to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are attempted to be used appropriately to support statements, but use only somewhat adds to richness and precision of work.	Minimal effort to use diagrams, symbols, graphs, and/or other models and tools appropriately to support statements. Use does not add to richness and precision of work.	Diagrams, symbols, graphs, and/or other models and tools are not used appropriately to support statements.
A Accuracy	Includes precise and clear reasons/examples to support ideas. Uses ample mathematical terms/vocabulary in an appropriate manner.	Includes reasons/examples to support ideas. Uses mathematical terms/vocabulary in an appropriate manner.	Includes some reasons/examples to support ideas, but reasons/examples may not be clear.	Minimal effort to include reasons/examples to support ideas. Uses limited and/or inappropriate mathematical terms/vocabulary.	Includes no reasons/examples to support ideas. Uses very limited mathematical terms/vocabulary.
C Computation	Effectively demonstrates required skills. Errors are minimal and do not interfere with meaning and understanding.	Sufficiently demonstrates required skills. Errors may interfere at times with meaning and understanding.	Demonstrates most of the required skills. Errors somewhat interfere with meaning and understanding.	Demonstrates some of the required skills. Errors interfere with meaning and understanding.	Demonstrates none of the required skills. Errors greatly interfere with meaning and understanding.
E Explanation	Writing contains sufficient and meaningful detail to demonstrate a thorough understanding of the concepts.	Writing contains sufficient detail to demonstrate understanding of the concepts. Additional detail would enhance the work.	Writing contains detail to demonstrate some understanding of the concepts. Additional detail is needed.	Minimal attempt to explain or justify work. Writing contains insufficient detail to demonstrate an understanding of the concepts.	No attempt to explain or justify work. Writing contains little to no detail and does not demonstrate an understanding of the concepts.