

Name: _____

Date: _____

BLM 8–18

Task: Trigonometry Using *The Geometer's Sketchpad*® Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge and understanding of trigonometry and GSP tools 	<ul style="list-style-type: none"> demonstrates some knowledge and understanding of trigonometry and GSP tools 	<ul style="list-style-type: none"> demonstrates considerable knowledge and understanding of trigonometry and GSP tools 	<ul style="list-style-type: none"> demonstrates thorough knowledge and understanding of trigonometry and GSP tools
Thinking	<ul style="list-style-type: none"> uses limited planning skills (e.g., guesses) uses processing skills with limited effectiveness (e.g., provides limited reasoning or justification) uses critical thinking processes with limited effectiveness 	<ul style="list-style-type: none"> uses some planning skills (e.g., provides some evidence of a plan) uses processing skills with some effectiveness (e.g., provides some evidence of reasoning or justification) uses critical thinking processes with some effectiveness 	<ul style="list-style-type: none"> uses considerable planning skills (e.g., provides considerable evidence of a plan) uses processing skills with considerable effectiveness (e.g., provides considerable evidence of reasoning or justification) uses critical thinking processes with considerable effectiveness 	<ul style="list-style-type: none"> uses planning skills with a high degree of effectiveness (e.g., provides detailed evidence of plans) uses processing skills effectively (e.g., provides detailed evidence of reasoning or justification) uses critical thinking processes with a high degree of effectiveness
Communication	<ul style="list-style-type: none"> prepares a simple solution, making a few reasonable statements, with some assistance infrequently uses mathematical symbols and vocabulary correctly explanations and justifications are not present work is disorganized 	<ul style="list-style-type: none"> prepares solutions, making some reasonable statements, with limited assistance uses correct mathematical symbols and vocabulary some of the time explanations and justifications are partially complete (e.g., includes few details of how to make GSP constructions) 	<ul style="list-style-type: none"> prepares solutions, making reasonable statements, without assistance uses correct mathematical symbols and vocabulary with a few minor errors explanations and justifications are clear and complete (e.g., includes some details of how to make GSP constructions) 	<ul style="list-style-type: none"> prepares complete, detailed, insightful solutions uses mathematical symbols and vocabulary correctly and creatively explanations and justifications are particularly clear and detailed (e.g., includes all details of how to make GSP constructions)
Application	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts (e.g., using basic GSP tools) with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts (e.g., using basic GSP tools) with some effectiveness 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts (e.g., using basic GSP tools) with considerable effectiveness 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts (e.g., using basic GSP tools) with a high degree of effectiveness