

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 8-18**

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

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