

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

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

**BLM 5-17**

## Chapter 5 Task Rubric

Categories	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>Creates a table for part a).</li> <li>Draws the graphs for parts b) and c).</li> </ul>	Demonstrates limited understanding of trigonometry; make major errors in the solution. Both graphs have inappropriate scales or no scales.	Demonstrates some understanding of trigonometry; makes minor errors in the solution. One graph has an inappropriate scale or no scale.	Demonstrates considerable understanding of trigonometry; makes few errors in the solution. Both graphs have appropriate scales.	Demonstrates thorough understanding of trigonometry; makes no errors in the solution. Both graphs have appropriate scales.
<b>Thinking</b> <ul style="list-style-type: none"> <li>Prepares a plan to solve the problem.</li> <li>Carries out the plan.</li> </ul>	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
<b>Communication</b> <ul style="list-style-type: none"> <li>Correct use of mathematical language.</li> <li>Clear explanations and full justifications.</li> </ul>	Maintains the correct units in some of the solution. Does not clearly explain or justify solution.	Maintains the correct units throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units throughout the solution. Explains and justifies solution fully.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
<b>Application</b> <ul style="list-style-type: none"> <li>Interprets the graphs to determine the solutions for parts d) to g).</li> <li>Creates a 3-D model of the situation.</li> </ul>	Interprets the information ineffectively. Inaccurately finds the minimum and maximum values, the intervals, and the equation. Creates a 3-D model that is not representative of the situation.	Interprets the information somewhat effectively. Accurately finds some of the minimum and maximum values, the intervals, and the equation. Creates a 3-D model that is partially representative of the situation.	Interprets the information with considerable effectiveness. Accurately finds most of the minimum and maximum values, the intervals, and the equation. Creates a 3-D model that is representative of the situation.	Interprets the information with a high degree of effectiveness. Accurately finds the minimum and maximum values, the intervals, and the equation. Creates a 3-D model that completely and accurately represents the situation.