Name: _____   Date: _____

Chapter 4 Problem Wrap-Up Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • Chooses the appropriate trigonometric tool to solve the problem.	Demonstrates limited understanding of trigonometry. Needs assistance to visualize the problem. Finds the distances with many errors.	Demonstrates some understanding of trigonometry. Needs little assistance to visualize the problem. Finds the distances with some errors.	Demonstrates considerable understanding of trigonometry. Able to visualize the problem without assistance. Correctly finds the distances.	Demonstrates thorough understanding of trigonometry. Accurately visualizes the problem. Correctly and completely finds all the distances.
Thinking • Prepares a plan to solve the problem. • Carries out the plan.	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.
Communication • Clear explanations and full justifications. • Correct use of mathematical language.	Maintains the correct units and notation in some of the solution. Does not clearly explain or justify solution.	Maintains the correct units and notation throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units and notation throughout the solution. Explains and justifies solution fully.	Maintains the correct units and notation throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
Application • Calculates the angle that would achieve an official throw distance of 71 m.	Interprets the information ineffectively and has difficulty applying the sine law and the cosine law to calculate the angle.	Interprets the information somewhat effectively and has some difficulty applying the sine law and the cosine law to calculate the angle.	Interprets the information with considerable effectiveness and has little difficulty applying the sine law and the cosine law to calculate the angle.	Interprets the information with a high degree of effectiveness and has no difficulty applying the sine law and the cosine law to calculate the angle.