

Name: _____

Date: _____

BLM 5-13

Chapter 5 Problem Wrap-Up Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Interprets the equation and the graph in terms of the context of ultrasound radiation. Describes the adjustments that were made. 	Demonstrates limited understanding of the sine function; makes major errors in the solution.	Demonstrates some understanding of the sine function; makes minor errors in the solution.	Demonstrates considerable understanding of the sine function; makes few errors in the solution.	Demonstrates thorough understanding of the sine function; makes no errors in the solution.
Thinking <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Correct use of mathematical language. Clear explanations and full justifications. Sketch of graph of function is clear and labelled appropriately. 	Maintains the correct units in some of the solution. Does not clearly explain or justify solution. Does not sketch graph clearly; labels are missing or incorrect.	Maintains the correct units throughout most of the solution. Explains and justifies solution somewhat. Sketch of graph is somewhat clear; some labels are missing or incorrect.	Maintains the correct units throughout the solution. Explains and justifies solution fully. Sketch of graph is clear and appropriately labelled.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solution. Sketches of graphs of all functions are clear and appropriately labelled.
Application <ul style="list-style-type: none"> Determines the maximum and minimum radiation, the period, and the number of cycles in 1 s. 	Interprets the information ineffectively, inaccurately finding the maximum and minimum radiation, the period, and the number of cycles in 1 s.	Interprets the information somewhat effectively, accurately finding most of the maximum and minimum radiation, the period, and the number of cycles in 1 s.	Interprets the information with considerable effectiveness, accurately finding the maximum and minimum radiation, the period, and the number of cycles in 1 s.	Interprets the information with a high degree of effectiveness, accurately finding the maximum and minimum radiation, the period, and the number of cycles in 1 s.