

Name: _____

Date: _____

BLM 5-10

Section 5.4 Achievement Check Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Explains the characteristics of the graphs and equations of periodic functions that model the paddleboat wheel's motion in parts b) to d). 	Demonstrates limited understanding of the characteristics of the graphs and equations of periodic functions.	Demonstrates some understanding of the characteristics of the graphs or equations of periodic functions.	Demonstrates considerable understanding of the characteristics of the graphs and equations of periodic functions.	Demonstrates thorough understanding of the characteristics of the graphs and equations of periodic functions.
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"> Clear explanations and full justifications. 	Does not clearly explain or justify solution.	Explains and justifies solution somewhat.	Explains and justifies solution fully.	Explains, justifies and shows insight into the complexities of the solution.
Application <ul style="list-style-type: none"> Draws a graph to represent the motion of the wheel. Gives numerous examples in part e). 	Interprets the information ineffectively by drawing an unlabelled and disproportionate graph. Gives one, unexplained example of machinery with periodic motion.	Interprets the information somewhat effectively by drawing an unlabelled or disproportionate graph. Gives one, explained example of machinery with periodic motion.	Interprets the information with considerable effectiveness by drawing a labelled and proportionate graph. Gives a few, explained examples of machinery with periodic motion.	Interprets the information with a high degree of effectiveness by drawing a fully labelled and proportionate graph. Gives many, explained examples of machinery with periodic motion.