Name: _____   Date: _____

Chapter 3 Problem Wrap-Up Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • domain and range • slope • cost function	• demonstrates little understanding of domain, range, slope and the cost function • solution to some parts of the question are provided • solutions are somewhat accurate	• demonstrates some understanding of domain, range, slope and the cost function • solution to most parts of the question are provided • solutions are mostly accurate	• demonstrates considerable understanding of domain, range, slope and the cost function • solution to most parts of the question are provided • solutions are all accurate	• demonstrates thorough understanding of domain, range, slope and the cost function • solution to all parts of the question are provided • solutions are all accurate
Thinking • prepares a plan to solve the problem • carries out the plan	• needs extensive assistance to begin organizing a plan and needs some steps to follow	• needs some assistance to organize and implement an effective strategy	• 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 • report includes graphs, calculations, and a summary of the findings and recommendations, in words, referring to specific evidence, where applicable	• does not clearly explain or justify solution • uses limited mathematical form • has a limited method and reason for their design • one aspect of the report is completed	• explains and justifies solution somewhat • uses minimal mathematical form • has an outlined method of design and reasoning for the design • two aspects of the report are completed	• explains and justifies solution fully • uses good mathematical form • has a good outlined method of design and reasoning for the design • all three aspects of the report are present and done well	• explains, justifies and shows insight into the complexities of the solution • uses excellent mathematical form • all three aspects of the report are excellently completed