Name: _____   Date: _____

Section 3.1 Achievement Check Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • Completes the square in a quadratic equation.	Demonstrates limited understanding of the process of completing the square.	Demonstrates some understanding of the process of completing the square.	Demonstrates considerable understanding of the process of completing the square.	Demonstrates thorough understanding of the process of completing the square.
Thinking • Correct use of mathematical form. • Clear explanations and full justifications.	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 • Correct use of mathematical form. • Clear explanations and full justifications.	Makes many notational errors. Does not clearly explain or justify solution.	Makes few notational errors. Explains and justifies solution somewhat.	Makes no notational errors. Explains and justifies solution fully.	Makes no notational errors. Explains, justifies, and shows insight into the complexities of the solution.
Application • Finds the quadratic equation to model the situation. • Identifies the maximum/minimum value and the value where it occurs.	Interprets the information ineffectively, needing considerable assistance to find the equation, and making errors in identifying the solutions.	Interprets the information somewhat effectively, needing some assistance to find the equation, or making a few errors in identifying the solutions.	Interprets the information with considerable effectiveness, needing no assistance to find the equation, and correctly identifying the solutions.	Interprets the information with a high degree of effectiveness, correctly finding the equation and identifying the solutions.