

Name: _____

Date: _____

BLM 6-9

Section 6.4 Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of use of the quadratic formula and use of CAS to solve quadratic equations 	<ul style="list-style-type: none"> demonstrates some knowledge of use of the quadratic formula and use of CAS to solve quadratic equations 	<ul style="list-style-type: none"> demonstrates considerable knowledge of use of the quadratic formula and use of CAS to solve quadratic equations 	<ul style="list-style-type: none"> demonstrates thorough knowledge of use of the quadratic formula and use of CAS to solve quadratic equations
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of problem solving strategies in setting up an equation to model the context) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness (e.g., some evidence of problem solving strategies in setting up an equation to model the context) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of problem solving strategies in analysing the context, setting up an equation, solving it, and verifying the solution) 	<ul style="list-style-type: none"> uses planning and critical thinking processes very effectively (e.g., detailed evidence of problem solving strategies in analysing the context, setting up an equation, solving it, and verifying the solution)
Communication	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with limited effectiveness uses mathematical vocabulary and notation with limited effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with some effectiveness uses mathematical vocabulary and notation with some effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with considerable effectiveness uses mathematical vocabulary and notation with considerable effectiveness (e.g., uses good form for presenting solutions) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with a high degree of effectiveness uses mathematical vocabulary and notation with a high degree of effectiveness (e.g., uses very good form for presenting solutions)
Application	<ul style="list-style-type: none"> applies knowledge of the quadratic formula and use of CAS or graphing calculator to this context with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge of the quadratic formula and use of CAS or graphing calculator to this context with some effectiveness 	<ul style="list-style-type: none"> applies knowledge of the quadratic formula and use of CAS or graphing calculator to this context with considerable effectiveness 	<ul style="list-style-type: none"> applies knowledge of the quadratic formula and use of CAS or graphing calculator to this context with a high degree of effectiveness