Name: _____ Date: _____

Chapter 4 Self-Assessment

Concept	BEFORE	DURING (What I can do)	AFTER (Proof that I can do this)
4.1			
I can describe the relationship between the roots of a quadratic equation, the zeros of the corresponding quadratic function, and the *x*-intercepts of the graph of the quadratic function.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
I can solve quadratic equations by graphing the corresponding quadratic function.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
I can solve a problem by analysing a quadratic function.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
4.2			
I can factor a variety of quadratic expressions.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
I can solve quadratic equations by factoring.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
I can solve problems that involve quadratic equations.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes
I can solve a problem by writing and analysing a quadratic equation.	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes	❏ No, not yet ❏ Some ❏ Yes

Concept	BEFORE	DURING (What I can do)	AFTER (Proof that I can do this)
4.3			
I can solve quadratic equations by determining square roots.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can solve quadratic equations by completing the square.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can verify my solution to a quadratic equation.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
4.4			
I understand how the quadratic formula is developed.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can use the quadratic formula to solve quadratic equations.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can use the discriminant to determine the nature of the roots of a quadratic equation.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can select an appropriate method for solving a quadratic equation.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can justify my choice of strategy for solving a quadratic equation.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes
I can solve problems involving quadratic equations.	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes	❑ No, not yet ❑ Some ❑ Yes