

Chapter 6 Problem Wrap-Up Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of use of different methods for manipulating quadratic expressions and finding the coordinates of the vertex 	<ul style="list-style-type: none"> demonstrates some knowledge of use of different methods for manipulating quadratic expressions and finding the coordinates of the vertex 	<ul style="list-style-type: none"> demonstrates considerable knowledge of different methods for manipulating quadratic expressions and finding the coordinates of the vertex (e.g., substituting for values of x and y to find coordinates, completing the square) 	<ul style="list-style-type: none"> demonstrates thorough knowledge of use of different methods for manipulating quadratic expressions and finding the coordinates of the vertex (e.g., substituting for values of x and y to find coordinates, completing the square)
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of reasoning skills) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness (e.g., some evidence of reasoning skills) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of reasoning skills) 	<ul style="list-style-type: none"> uses planning and critical thinking processes very effectively (e.g., detailed evidence of reasoning skills)
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 analytic geometry of quadratic relations and circle properties with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge of analytic geometry of quadratic relations and circle properties with some effectiveness 	<ul style="list-style-type: none"> applies knowledge of analytic geometry of quadratic relations and circle properties with considerable effectiveness 	<ul style="list-style-type: none"> applies knowledge of analytic geometry of quadratic relations and circle properties with a high degree of effectiveness