

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Chapter 8 Problem Wrap-Up Rubric

BLM 8-9

Categories	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>solves the inequalities</li> <li>graphs the functions</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates limited understanding of modelling functions, by incorrectly solving the inequalities and producing inaccurate graphs without labels</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates some understanding of modelling functions, by incorrectly solving one of the inequalities and producing accurate graphs without labels</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates considerable understanding of modelling functions, by correctly solving the inequalities and producing accurate graphs with labels</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates thorough understanding of modelling functions, by correctly solving the inequalities and producing accurate, fully labelled graphs using technology</li> </ul>
<b>Thinking/Inquiry/Problem Solving</b> <ul style="list-style-type: none"> <li>prepares a plan to solve the problem</li> <li>carries out the plan</li> </ul>	<ul style="list-style-type: none"> <li>needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow</li> </ul>	<ul style="list-style-type: none"> <li>needs some assistance to begin organizing a plan and needs some steps to follow</li> </ul>	<ul style="list-style-type: none"> <li>needs minimal assistance to organize and implement an effective strategy</li> </ul>	<ul style="list-style-type: none"> <li>needs no assistance to organize and implement an effective strategy</li> </ul>
<b>Communication</b> <ul style="list-style-type: none"> <li>correctly uses mathematical language</li> <li>clearly explains and fully justifies solution</li> </ul>	<ul style="list-style-type: none"> <li>maintains the correct language in some of the solution</li> <li>does not clearly explain or justify solution</li> </ul>	<ul style="list-style-type: none"> <li>maintains the correct language throughout most of the solution</li> <li>explains and justifies solution somewhat</li> </ul>	<ul style="list-style-type: none"> <li>maintains the correct language throughout the solution</li> <li>explains and justifies solution fully</li> </ul>	<ul style="list-style-type: none"> <li>maintains the correct language throughout the solution</li> <li>explains, justifies and shows insight into the complexities of the solution</li> </ul>
<b>Application</b> <ul style="list-style-type: none"> <li>interprets the inequalities</li> <li>identifies the point of intersection</li> </ul>	<ul style="list-style-type: none"> <li>interprets the information ineffectually, by not explaining what the inequalities mean and misidentifying the point of intersection</li> </ul>	<ul style="list-style-type: none"> <li>interprets the information somewhat effectually, by explaining what one of the inequalities means and identifying the point of intersection without an explanation of the coordinates</li> </ul>	<ul style="list-style-type: none"> <li>interprets the information with considerable effectiveness, by explaining what both of the inequalities mean and identifying the point of intersection with an explanation of the coordinates</li> </ul>	<ul style="list-style-type: none"> <li>interprets the information with a high degree of effectiveness, by fully explaining what both of the inequalities mean and identifying the point of intersection with a full explanation of the coordinates</li> </ul>