

Name: _____
Student ID: _____

Assignment 4

This assignment is graded out of 10 marks. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) Minimize $C = 2x_1 + x_2 + 3x_3$ subject to the constraints

$$x_1 + x_2 + x_3 \geq 100$$

$$2x_1 + x_3 \geq 50$$

Question 2. (5 marks) Maximize $C = 2x_1 + x_2 + x_3$ subject to the constraints

$$x_1 + x_2 \geq 30$$

$$x_1 + x_2 + 3x_3 \geq 8$$

$$x_1 + x_3 \geq 1$$