Dawson	College:	Linear	Algebra:	201-105-DW: Fall 2009	
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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) Manimize $C = 2x_1 + x_2 + 3x_3$ subject to the constraints

$$x_1 + x_2 + x_3 \ge 100$$
$$2x_1 + x_3 \ge 50$$

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

$$x_1 + x_2 \ge 30$$

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

$$x_1 + x_3 \ge 1$$