MATH381

test #2, 10/20/16

Total 100

Show all work legibly	Show	all	work	legib	lv
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1. (40) Solve the LP problem

$$\max \mathbf{c}^T \mathbf{x} = 6x_1 + x_2 + 4x_3 \text{ subject to } 3x_1 + 7x_2 + x_3 \le 15, \ x_1 - 2x_2 + 3x_3 \le 20, \ \mathbf{x} \ge 0.$$

2. (20) State the dual LP.

The dual LP is:

3. (40) Solve the dual LP.

The solution is:

The optimal value of the objective function is: