

ASSIGNMENT : 4

UNIT : 2 Exercise and case problems on Dual and Primal LP Problems

1. Find the dual of the following LPP.

$$\text{Maximize } Z = 4x_1 + 5x_2 + 12x_3$$

$$\text{Subjected to } 2x_1 + x_2 + 3x_3 \leq 4$$

$$3x_1 - 2x_2 + x_3 = 3 \text{ and } x_1, x_2, x_3 \geq 0$$

2. Find the dual of the following LPP.

$$\text{Maximize } Z = -x_1 + 2x_2$$

$$\text{Subjected to } -x_1 + 3x_2 \leq 10$$

$$x_1 + x_2 \leq 6 \text{ and } x_1, x_2 \geq 0$$

