

ASSIGNMENT : 2

UNIT : 2 Exercise on Graphical solution of linear programming problems

1. Use graphical method to solve the following LPP .

$$\text{Maximize } Z=17 X_1 +15 X_2$$

$$\text{Subject to: } 15X_1 +25X_2 \leq 375$$

$$24X_1+11X_2 \leq 265$$

$$\text{All } X_1 , X_2 \geq 0$$

2. Use Graphical Method to Solve the Following LPP.

$$\text{Maximize } W = 2y_1 + y_2$$

$$\text{Subjected to } y_1 + 2y_2 \leq 10$$

$$y_1 + y_2 \leq 6$$

$$y_1 - y_2 \leq 2$$

$$y_1 - 2y_2 \leq 1 \text{ and } y_1, y_2 \geq 0$$

