4 - Solving the linear programming model:

There are two basic ways to solve the linear programming models:

(a) Graphical method: This method is used in the case of a specified number of variables (two or three only) but does not give us the practical way to solve linear programs because most of the problems of linear programming include a large number of variables.

This method is based on drawing these constraints from their two intersection points with the coordinate's axes, and then defining the common region between these constraints called the **Feasible Solutions Region (FSR).** The angles of this region represent the **Extreme points** from which we obtain the optimal values for the two variables so that they achieve the objective function. This method is considered the basic method to reach the Simplex method.

Example 3:

Solve the following linear programming model:

$$\begin{aligned} max. \quad & Z = 120X + 100Y \\ s.t. \quad & 2X + 2.5Y \le 1000 \\ & 3X + 1.5Y \le 1200 \\ & 1.5X + 4Y \le 1200 \\ & X, Y \ge 0 \end{aligned}$$

Solution:

1.	$2X + 2.5Y = 100$	if	$X = 0$	then	$Y = 400$	$\Rightarrow$	$(0,400)$
		if	$Y = 0$	then	$X = 500$	$\Rightarrow$	$(500,0)$
2	$3X + 1.5Y = 1200$	if	$X = 0$	then	$Y = 800$	$\Rightarrow$	$(0,800)$
		if	$Y = 0$	then	$X = 400$	$\Rightarrow$	$(400,0)$
3.	$1.5X + 4Y = 1200$	if	$X = 0$	then	$Y = 300$	$\Rightarrow$	$(0,300)$
		if	$Y = 0$	then	$X = 800$	$\Rightarrow$	$(800,0)$
4.	$X = 0$						
5.	$Y = 0$						

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