## Step-1

Feasible set: A feasible set is composed of the solutions to a family of linear inequalities, and a feasible point maximizes or minimizes a certain cost function.

## Step-2

To sketch the feasible set with following constraints:

 $x + 2y \ge 6$ 

 $2x + y \ge 6$ 

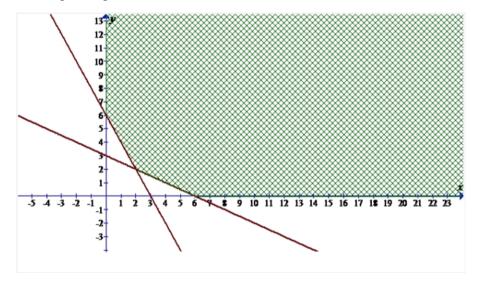
 $x \ge 0$ 

 $y \ge 0$ 

Also, to determine the points that lies at the three corners of this set.

## Step-3

Following sketch gives the feasible set:



Here shaded region denotes the feasible region.

## Step-4

Therefore, three corner sets are as follows:

(2,2),(0,6),(6,0)