B.Com (Hons.) Semester IV

Subject: Business Mathematics (Practical)

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Dear Students,

I hope you have practiced the linear programming problems through excel solver. If you have any queries, you can contact me through email: kaur.harmanpreet01@gmail.com.

Next, we would be covering how to solve linear programming problem graphically in excel. I am sharing the link for the video exhibiting step by step guide to solve the same.

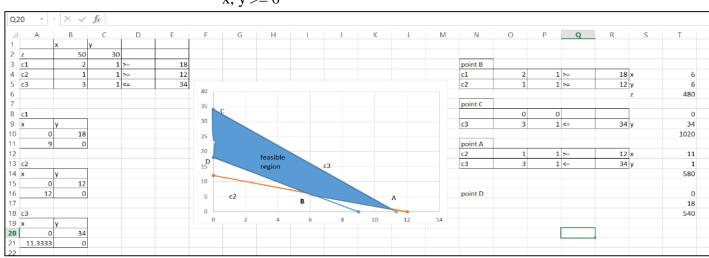
https://www.youtube.com/watch?v=pQp4GZfoxTo

Go through the video and practice the following questions:

Question 1: Max Z= 50x + 30y

Subject to constraints:

 $2x + y \ge 18$ $x + y \ge 12$ $3x + y \le 34$



x, y >= 0

Question 2: Solve the following problem graphically:

Minimize Z = 3x + 3.5ySubject to the constraints: $x + 2y \ge 240$ $2x + y \ge 180$ $3x + 4y \le 620$ $x, y \ge 0$

Question 3: Solve the following problem graphically:

Maximize Z = 17x + 27ySubject to the constraints:

$$2x + 3y \ge 18$$

 $2x + y \ge 10$
 $x + y \le 8$
 $x, y \ge 0$