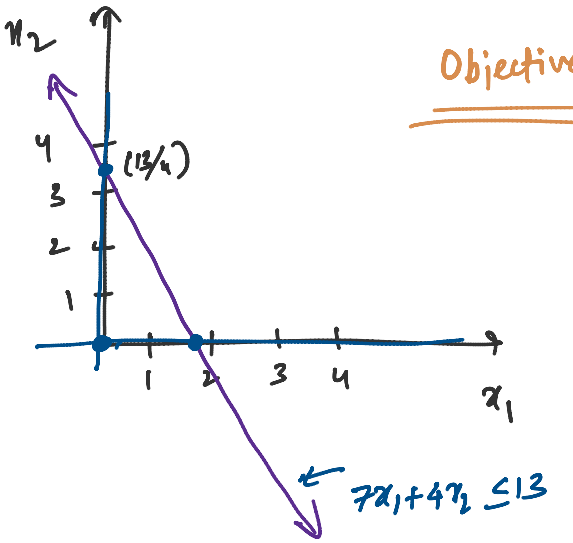
Class Participation 5

Monday, 10 October 2022 1:08 PM

Participants:

1. Shreyansh Agrawal: sa55742
2. Manvi Goyal: mg65952



Objective = $21x_1 + 11x_2$

Since its an integer programming, x_1 can only be $[0, 1]$ and x_2 can only be $[0, 1, 2, 3]$.

By performing grid search for every possible combination of x_1 and x_2.

We get the optimal soln as. $x_1 = 0$ $x_2 = 3$.

value of objective = $0 \cdot 21 + 3 \times 11 = 33$

Below is the grid search table for reference.

	x2			
x1	0	1	2	3
0	0	11	22	**33**
1	21	32		