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Problem 1

Points:

work with zimeng liu

“I did not consult anyone except my group members”.

non-class material:

Problem 2

Points:

a)

true:

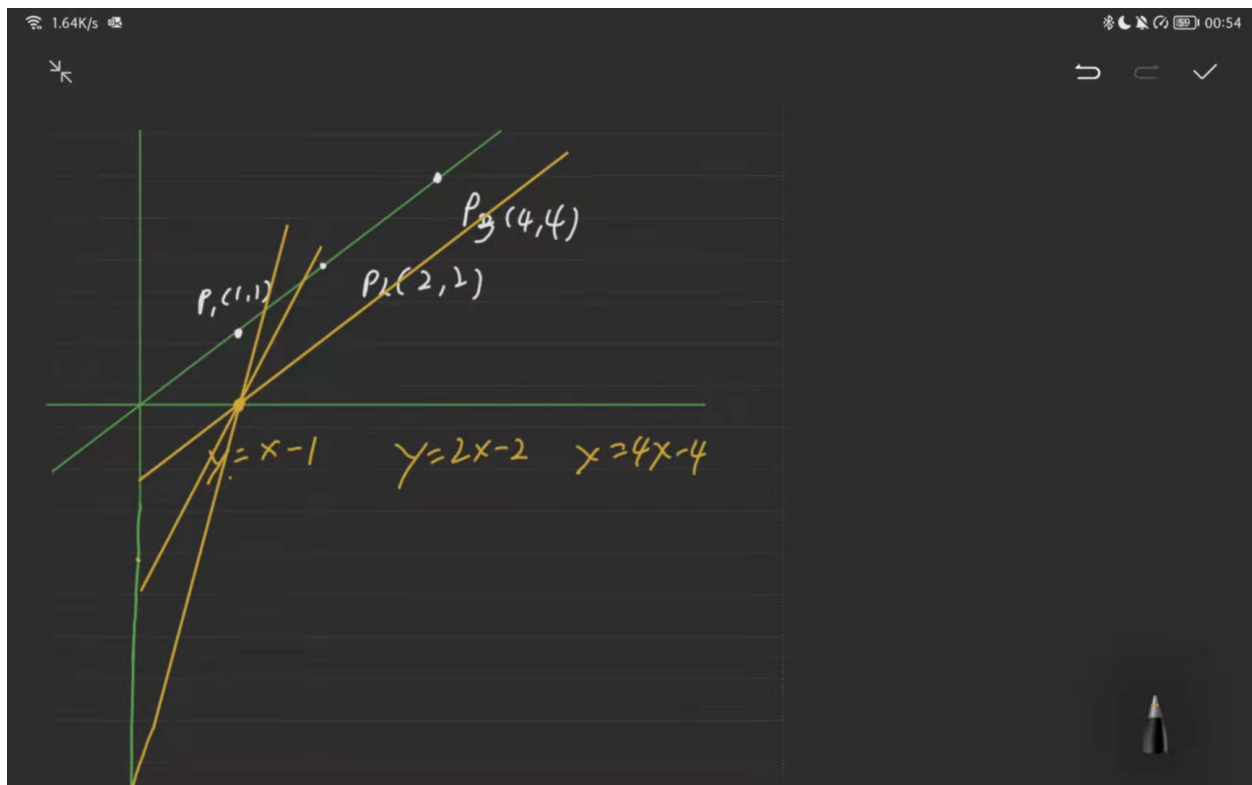
point p is on line l if and only if point l is on line p .

since p_1 to p_n are on the common line, their line will pass a common point

For any point p , we have $(p) = p$. For any line l , we have $(l) = l$.

Point p is on line l if and only if point l is on line p .

Point p is above (resp. below) line l if and only if point l is above (resp. below) line p .



b)

visé versa, if all the lines go over a point, their point will be on the same line.

2.

I don't know how to answer this question

3.

I don't know how to answer this question

Problem 3

Points:

I don't know how to answer this question

Problem 4

Points:

first set x_1 be 0, y_1 be 0, x_2 be half of the n and y_2 be m

so we can check if it is true, and gradually minimize the area by test if half of the remaining area will return true.

Repeatedly divide the section that may contain the item in half until you have narrowed down the possible locations to just one.