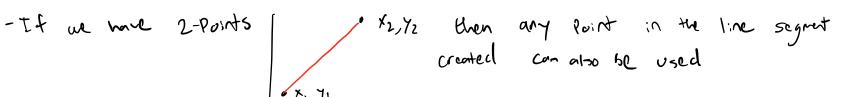
Troop mobilization

- for all troops (C; h;, P;) convert to 2d points by dividing by cost (Pi, Pi) for all troops we know how much health per unit we get



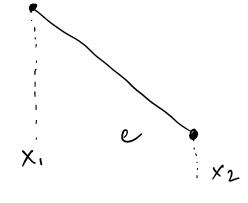
-This is also true for any set of points Infact any Point within the convex hull of set de Roints con 1150 be actived



- Lets Assume we only have a total budget of 1. I we want to maximize h.P Picking Some linear combination of points
- After sinding the convex HUII of the set of points we have to find the largest h.P that is possible.
- The optimal direction is roughly up 8 to the right, but not absolute distance Sum center since a point like (3,3) is better than (5,1)

- the optimal arswer always ics along an edge of the convex will it we Assume it is on the inside & we con still move up to the right then it is not optimal.

- It we six some edge the optimal answer is a point in the line



- we can assume the function is concave (I don't have proof) so we Can use binary scarch to find the maximum value

- Now we just do that For all edges and take the neximum
- The final answer is gotimplicative. b since both X8 y where divided by cost