

FEBRUARY							'15
S	M	T	W	T	F	S	
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	

2015 January

Thursday

008 - 357

Wk 02

8

Appointments

Convex hull problem

8.00

9.00

10.00

11.00

12.00

1.00

2.00

3.00

4.00

5.00

6.00

7.00

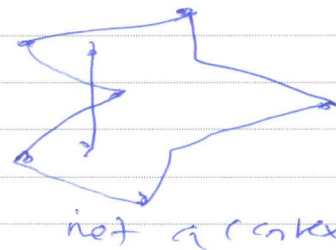
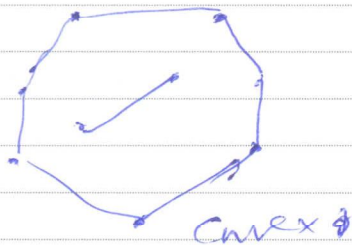
Notes

definition: given set $S = \{P_1, P_2, \dots, P_n\}$ of points in plane,
convex hull $H(S)$ - smallest convex polygon

$S \rightarrow$ points

$S \rightarrow$ convex set

polygon is convex if & only if 2 points from set forming a line segment with end points



Definition of Convex Hull:

- If S is set of 2 points its convex hull is line segment connecting these points.
- If S is set of 3 points then its convex hull is triangle.

• convex hull problem is problem of constructing

convex hull for given set S of points

January 2015

9

Friday

009 - 356
Wk 02

DECEMBER							'14						
S	M	T	W	T	F	S	1	2	3	4	5	6	
							7	8	9	10	11	12	
							14	15	16	17	18	19	
							21	22	23	24	25	26	
							28	29	30	31			

Appointments

8.00

9.00

10.00

11.00

12.00

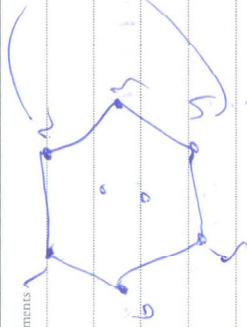
1.00

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extreme points

\therefore The points $\{1, 2, 5, 4, 5, 6\}$ are called extreme points

definition of extreme points

An extreme point of convex set is point which is not middle point of any line segment with end points in set.