

- Q's: Feedback on rough draft? What can you revise? Points for osets, **quizzes**, programming assignments? Weekly time?

Wed
③ Self-Assess.
S-10%

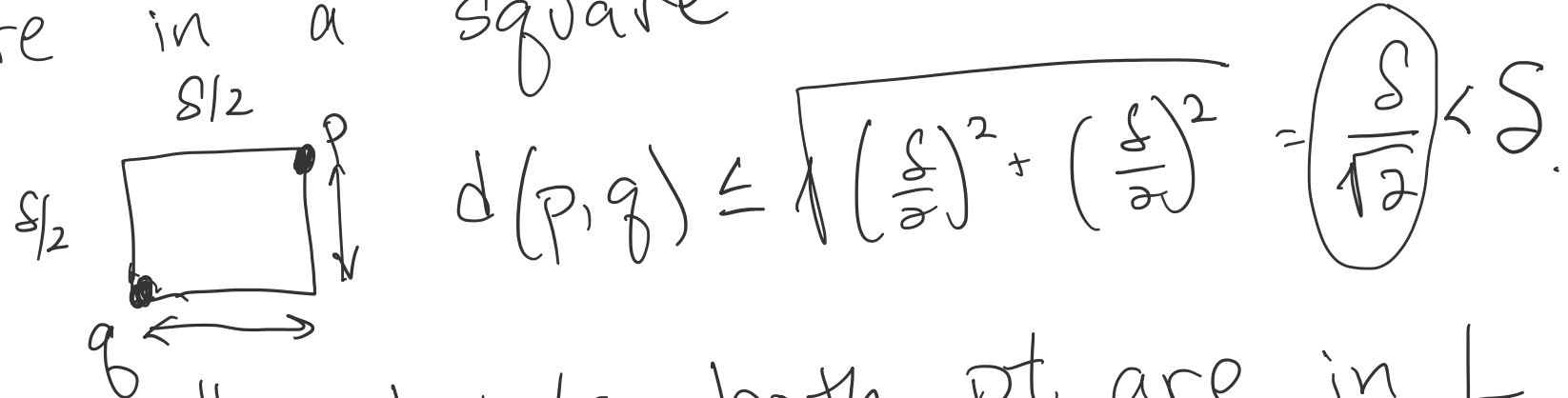
Friday

① Rough Draft ✓✓
20% ✓

④ Quiz S-10%


Pf: Imagine dividing region into $S/2 \times S/2$ squares, starting at p. Each of these squares can contain at most 1 pb.

For contradiction, suppose 2 pts
are in a square



Not allowed b/c both pt are in L

or both in K , so must have distance more than 8.
 Pts in rows 3, 4 are more than 8 from p . Only 7.
 other pts in rows 1, 2. These pts will be subsequent to
 p in Y s.

Base case: If $|P| \leq 3$ do brute force 

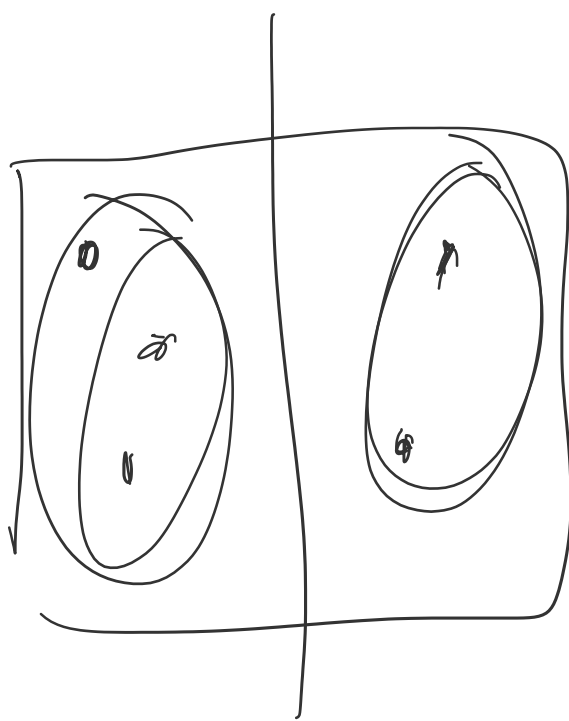
Divide:

$$S_L \leftarrow \text{CloP} + (L)$$
$$\mathcal{S}_R \leftarrow \text{CloPT}(\mathcal{R})$$
$$S \leftarrow \min \{ S_L, S_R \}$$

$Y_s \leftarrow$ y-sorted list of pts in P with x-coord within $|s|$ of midline ★

For $p \in Y_\delta$:

or $p \in Y_8$:
 Check distance from p to next 7 pts in Y_8 ★
 If distance less than 8 found, set 8 to new dist.

Return δ 

Group:

- explain in your own words why alg. works
- collect questions