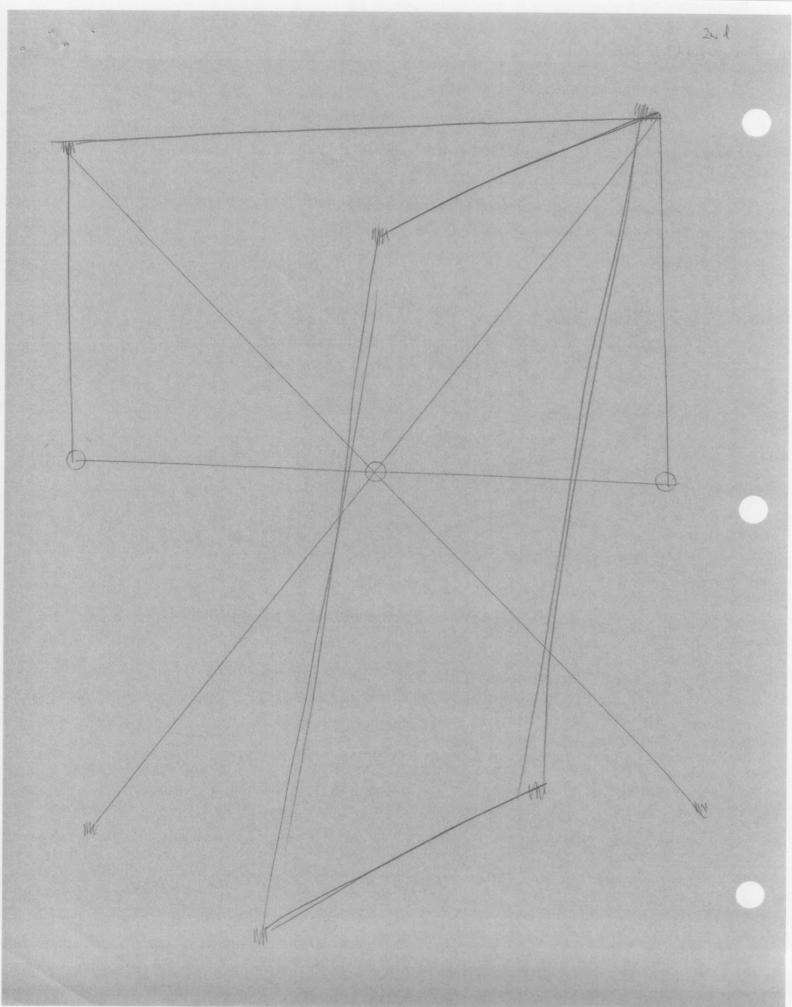
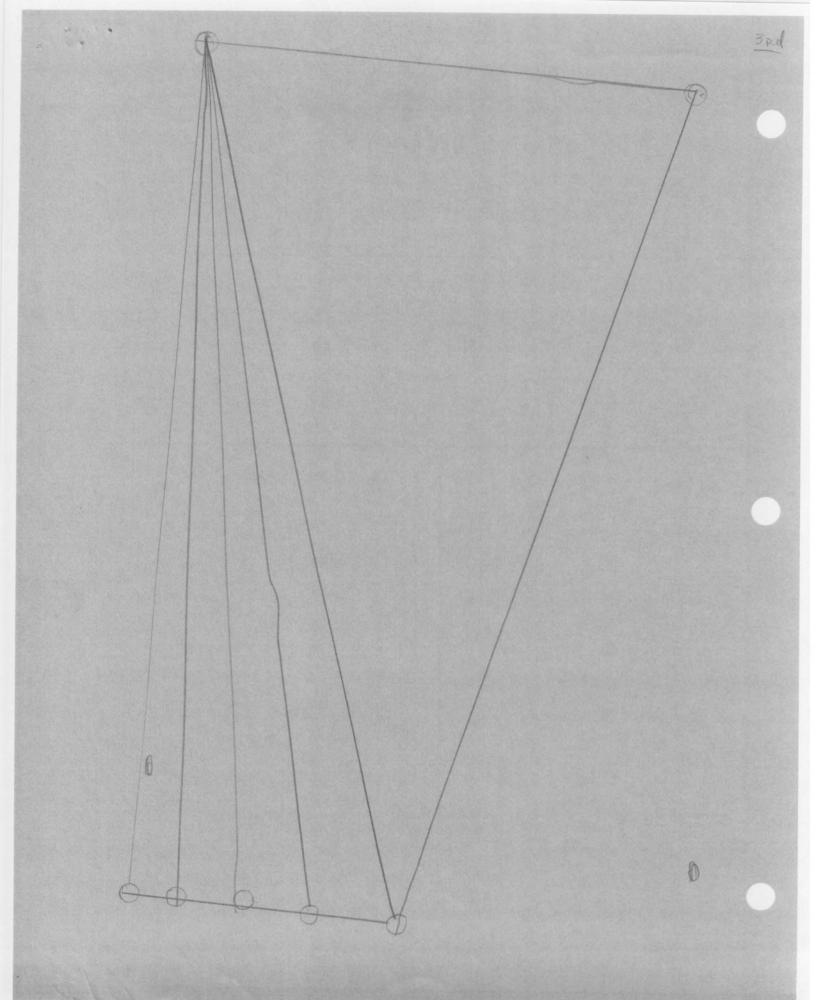


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Papallel lines whe knew That when you have The Two linb STICKS IF you match up The POINTS The leaving the same # of DOTS

on EACH SIDE THAN YOU will Have

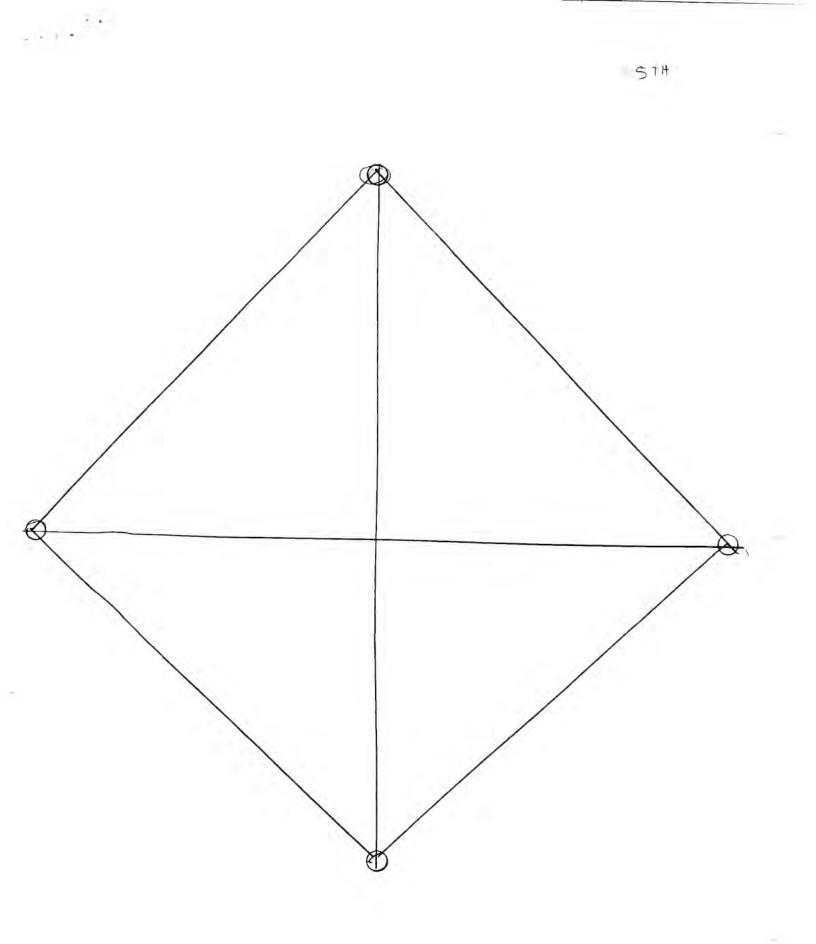
Pazzallel lines.

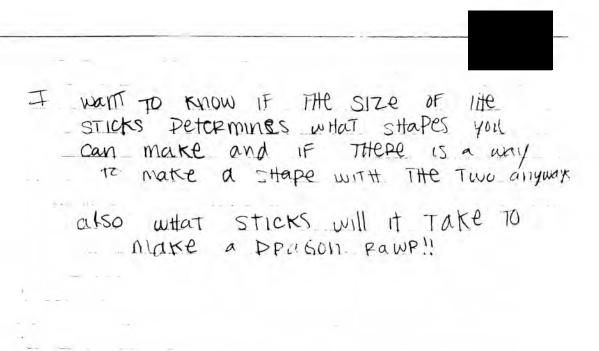
ATH

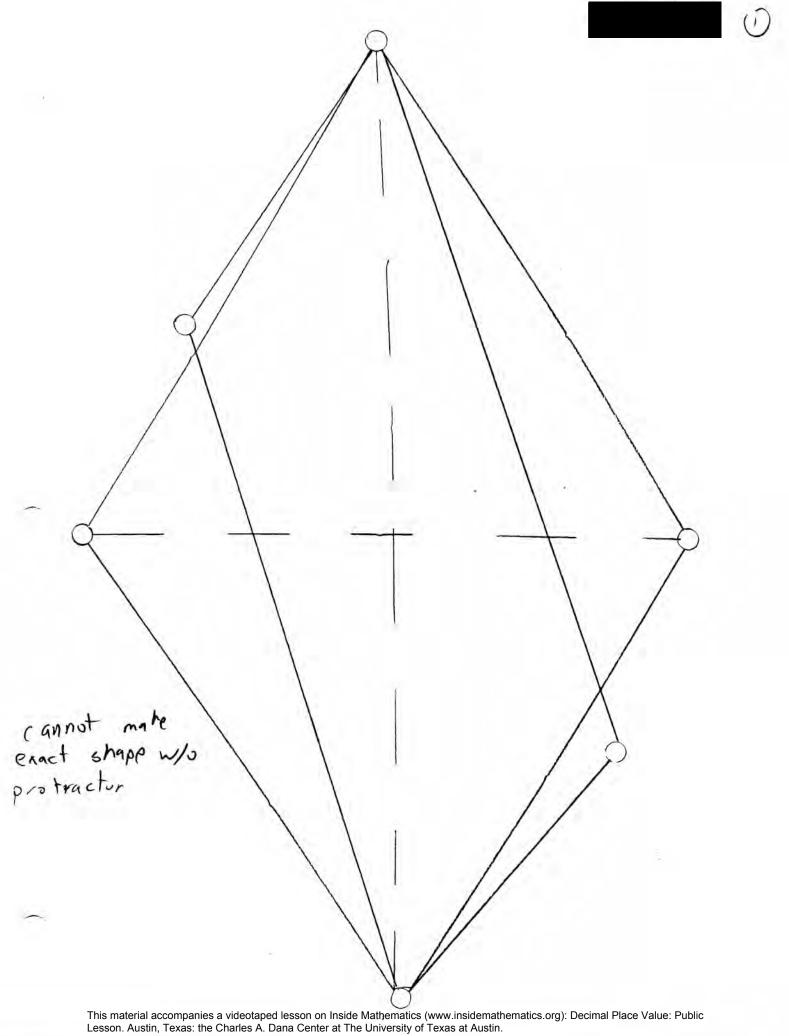
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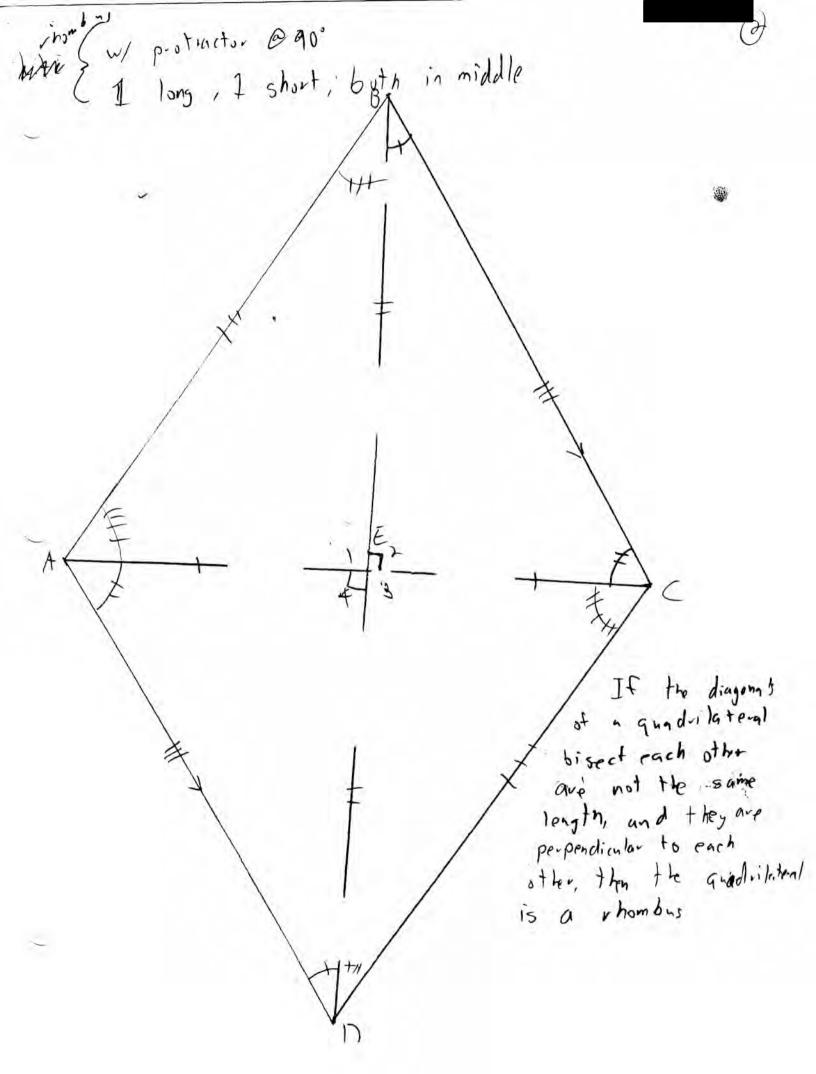
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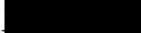






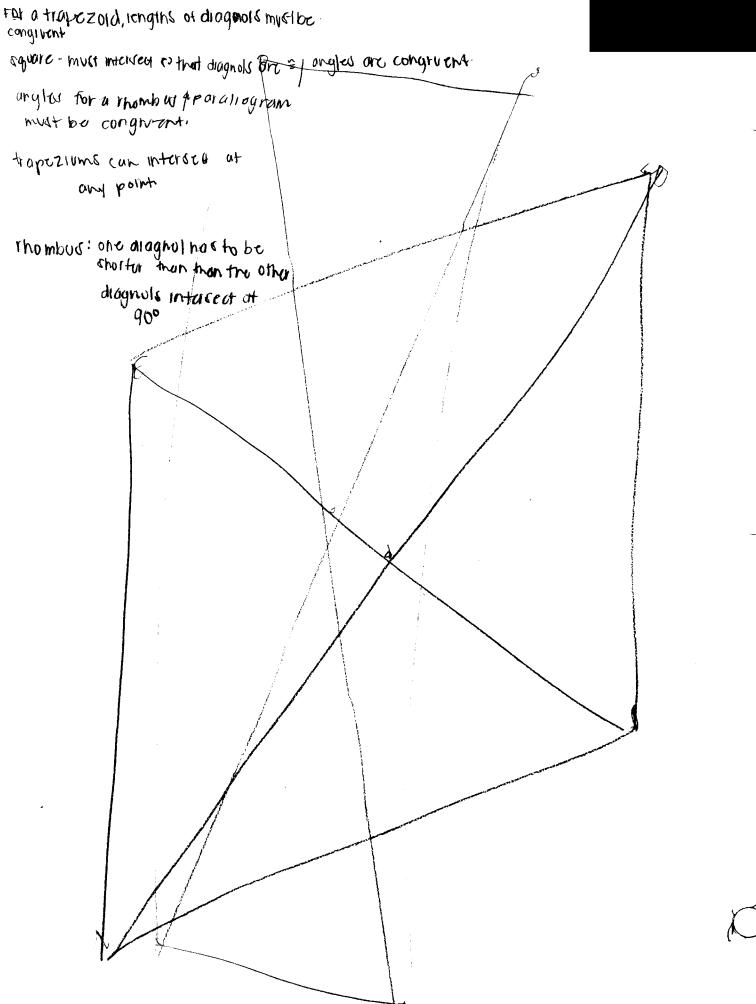
and attatch them in their midping so that the point of intersection is perpendicular. Rhombus	
s tatemnt	verson P
Statemant Let and Z4 congrist AE = CE S. BE = DE S. CADE = DCEB S. CADE = L CBE S. LADE = L CBE S. LADE = L CB S. LADE = L3 S. LEAB = LECD B. AB II CD B. AB II CD B. AB = CD B. AB = CD B. AB = CD J. DABE = CB 10. AB = CB 17. Quadrilateral ABCD 13 B. Yhombys	1. vertical angles 4. division property 5. division property 6. SHS $(r, 1, 3)$ 7. CPCTC 8. CPCTC 8. CPCTC 9. clter mate int. angles congruent 10. vertical Ls congruent 11. SAS $(3r, 8, 3)$ 12. CPCTC 13. alternate int angle congruent 14. CPCTC 15. SAS $(4, -r, 5)$ 16. CPCTC 16. CPCTC

statement 2. BD 3. AC reason n 2. given 3. given



I What do you think you did well in the process of investigating? I drew veally good pictures which made sense to me. I also started on a proof that reminded me what I was doing.

Hubbit will you try to do better next time? Why? I will try to make better observations on my scratch work because although I remember the process and the work I had been doing, three may come a fime that I will forget.



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observations

straperium,

·square can be mold e from the 210ng "sticks," connected @ the midpoint. -diagonals have to intersect @ 90°

· rectangle is created by two congruent "sticks", but the angle C which the diagonals intersect duesn't matter.

"trapezoids are created by 2 long"sticks", and have to intimect at a point that is not the midpoint. The segments created must be congrient.

·rhombus are created by a long and short diagonal, must intersect @ their midpoints, and intersect @ 90° angles.

AE ? CE

DESE

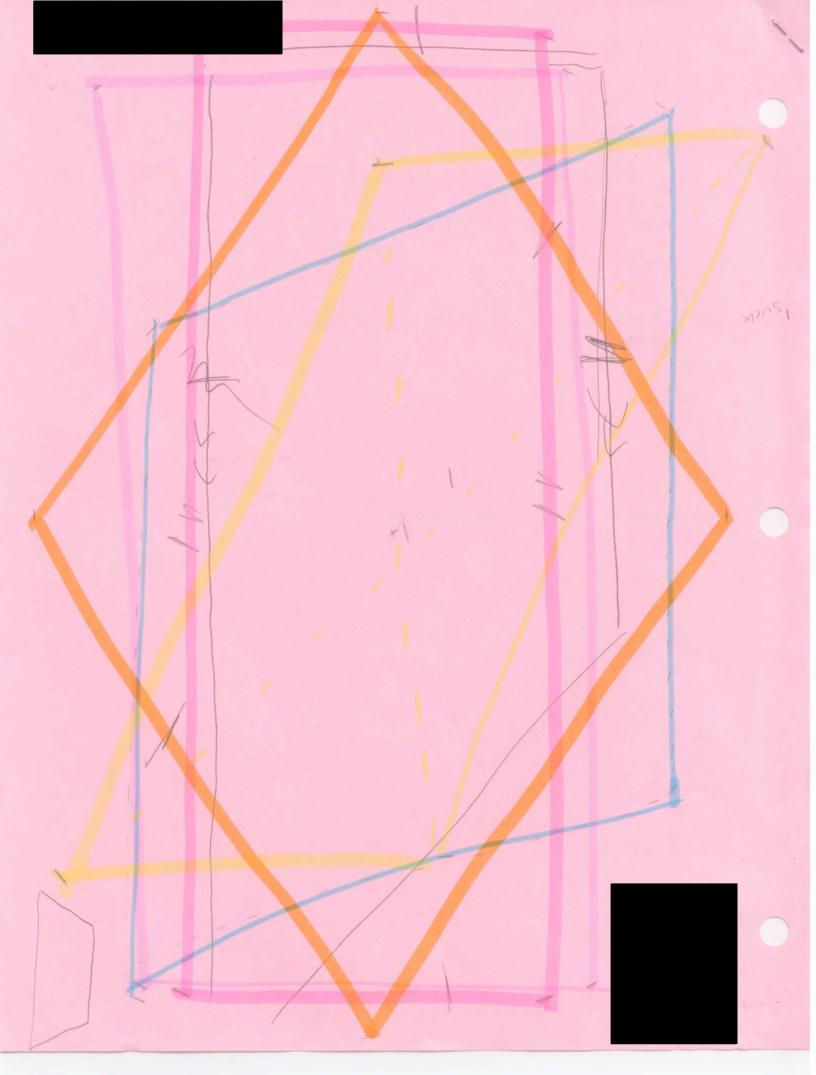
·parallelogram are just like mombuses, but don't have to intersect @ 90°

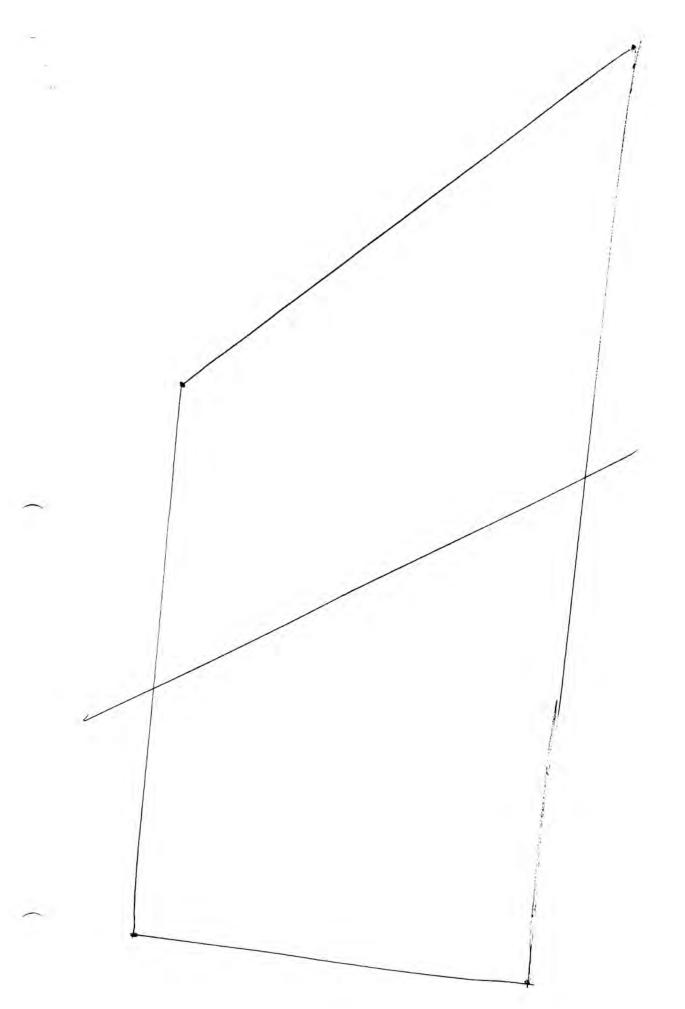
· KITES can be made from a long and sherd-stick, or two long sticks. The dragonalis mult be perpendicut ar, and line B must intersect line A at time A's midpoint, but they fault intersect @ line B's philopoint.

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How does knowing the exact arrangement of the sticks help with the kate?

I wrote down my ideas and thought that were going through my head, which I thought was good tinkering. I believe I could have wrote down the quartient that was going through my head also and drew more protures.

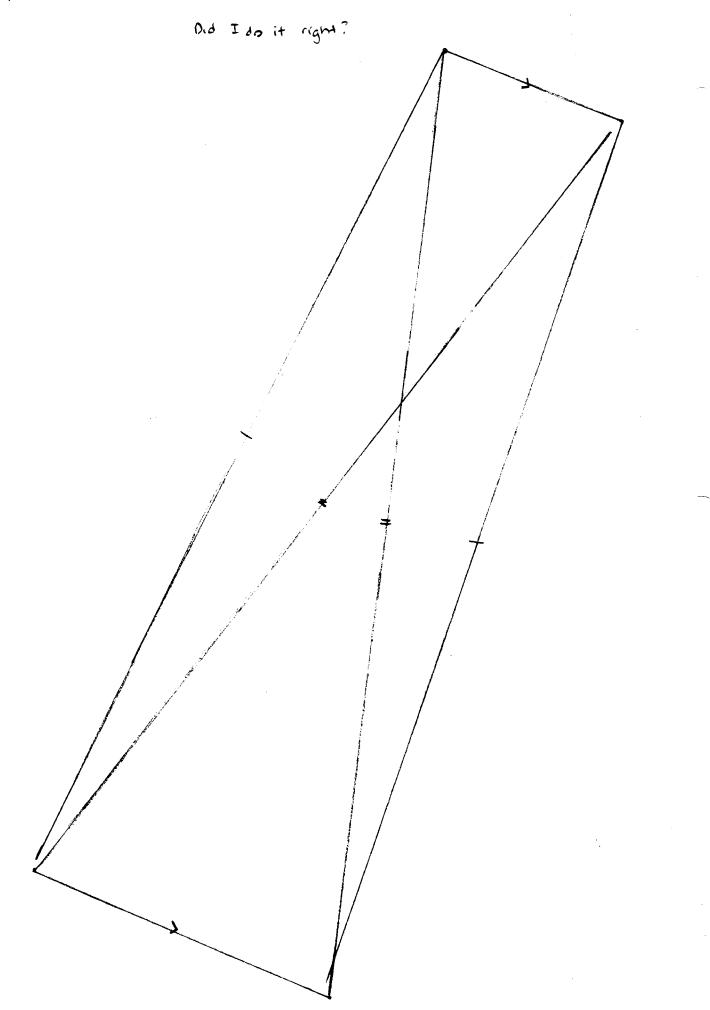


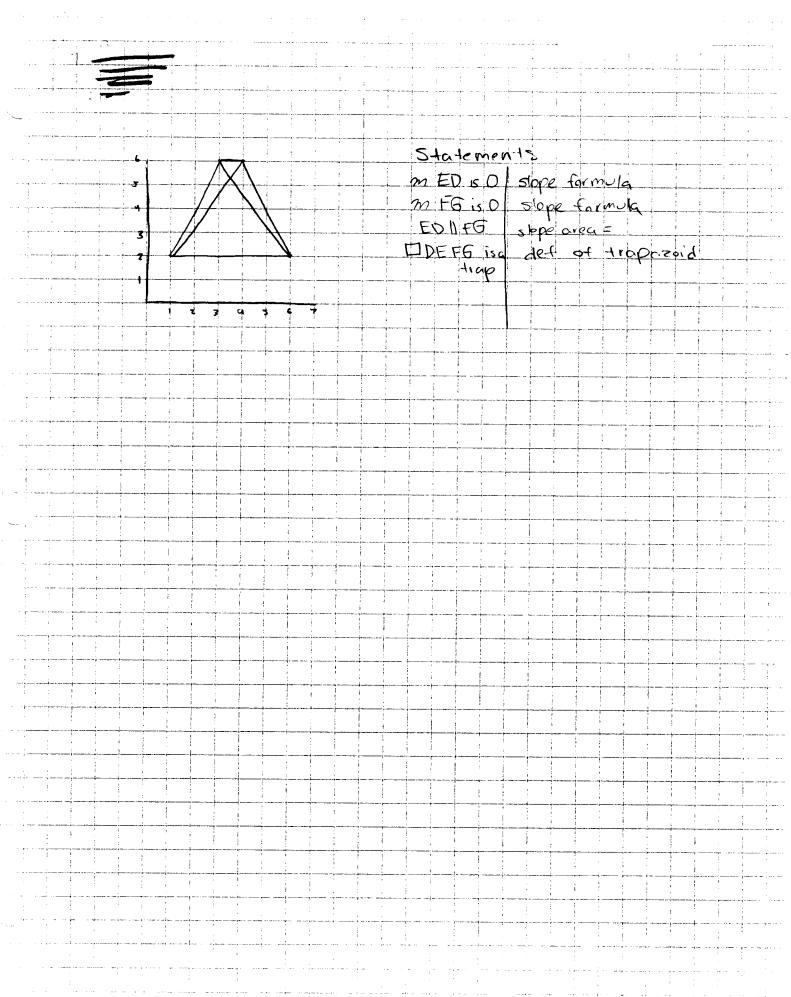


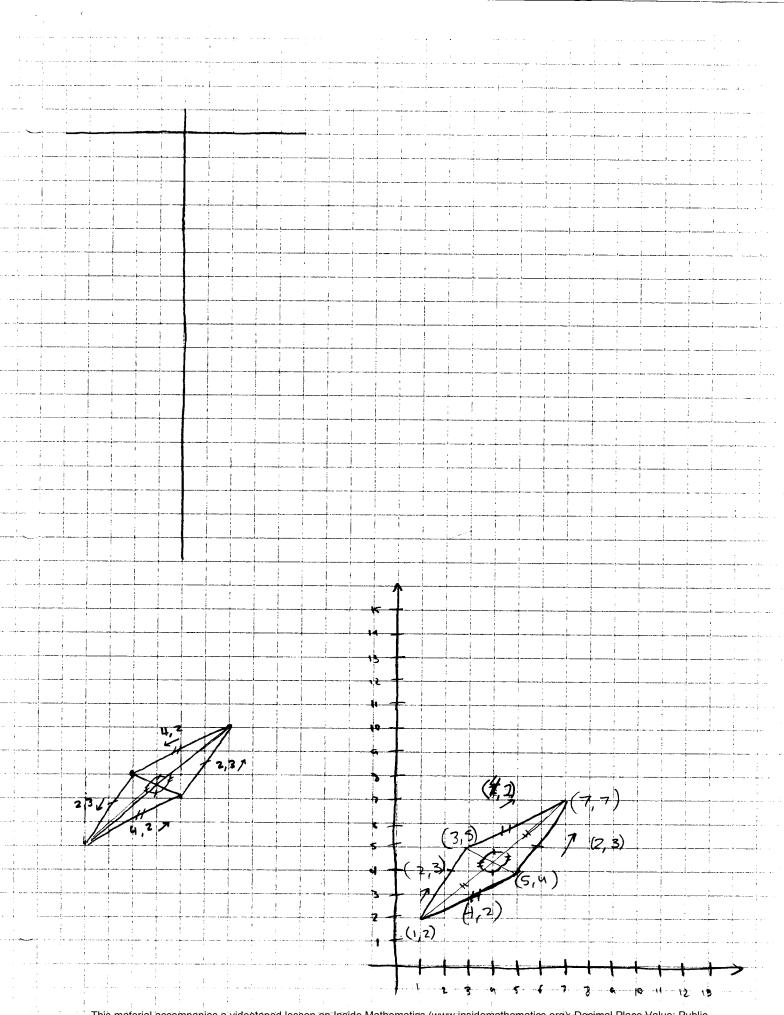
81. Narch 3.09

How can my group a myself figure out a constant method to creating a regular trapezoid out of the given diagonals?

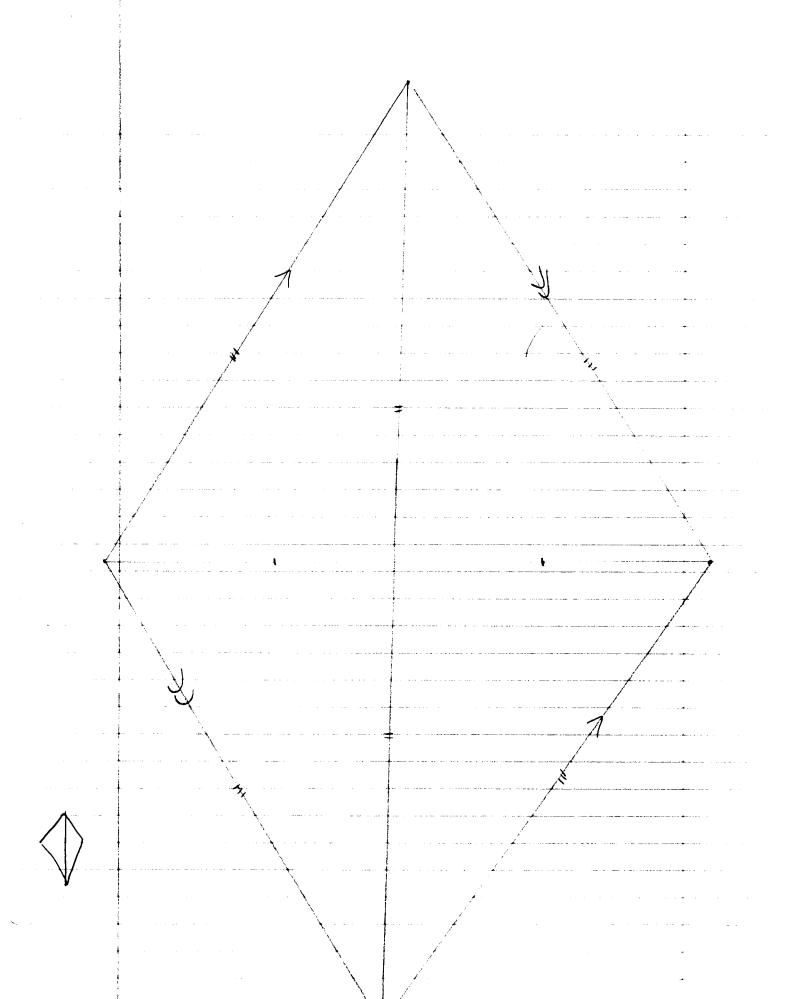
I think I did i vell deciding which "sticks" created what, shape towever, when it was individual work i meldidit really understand the prampt But ance I did I was very active in our group discussions. Next time I will wright dawn more notes on my tinkering sheet, to keep my thought fresh.



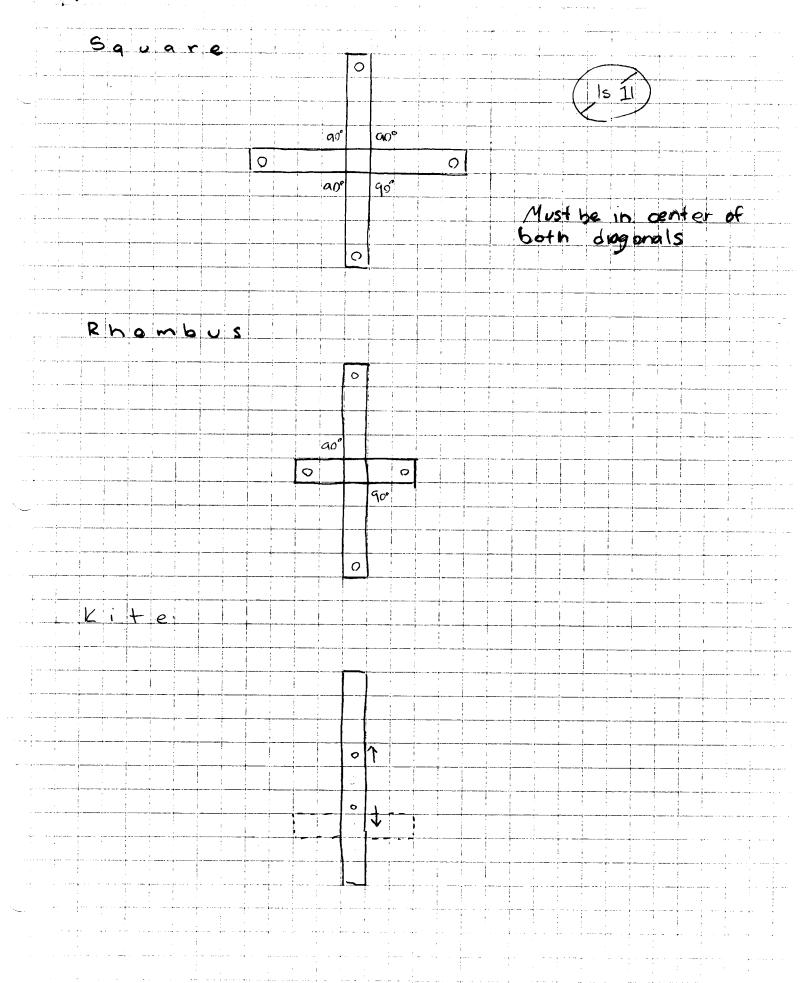




2 pryellawl center, w/ 4 90 K's (square) 1., 1 pink center, w) 4 90 K's (rhombus) 2 long (square) 11 1 short (rhombus) 2 long

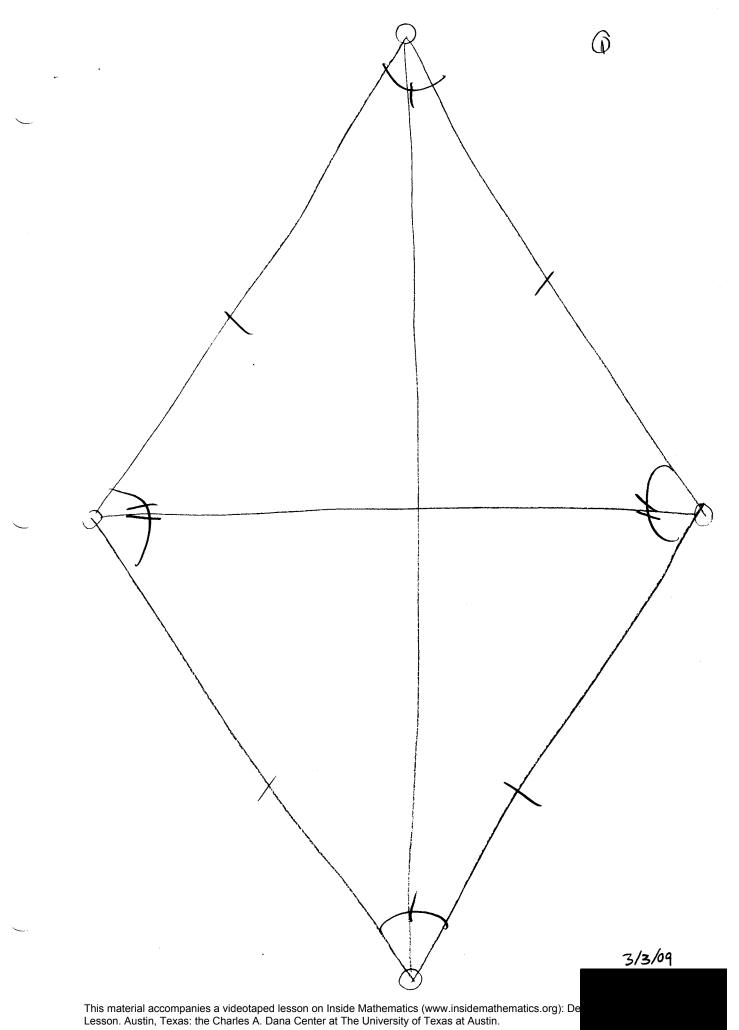


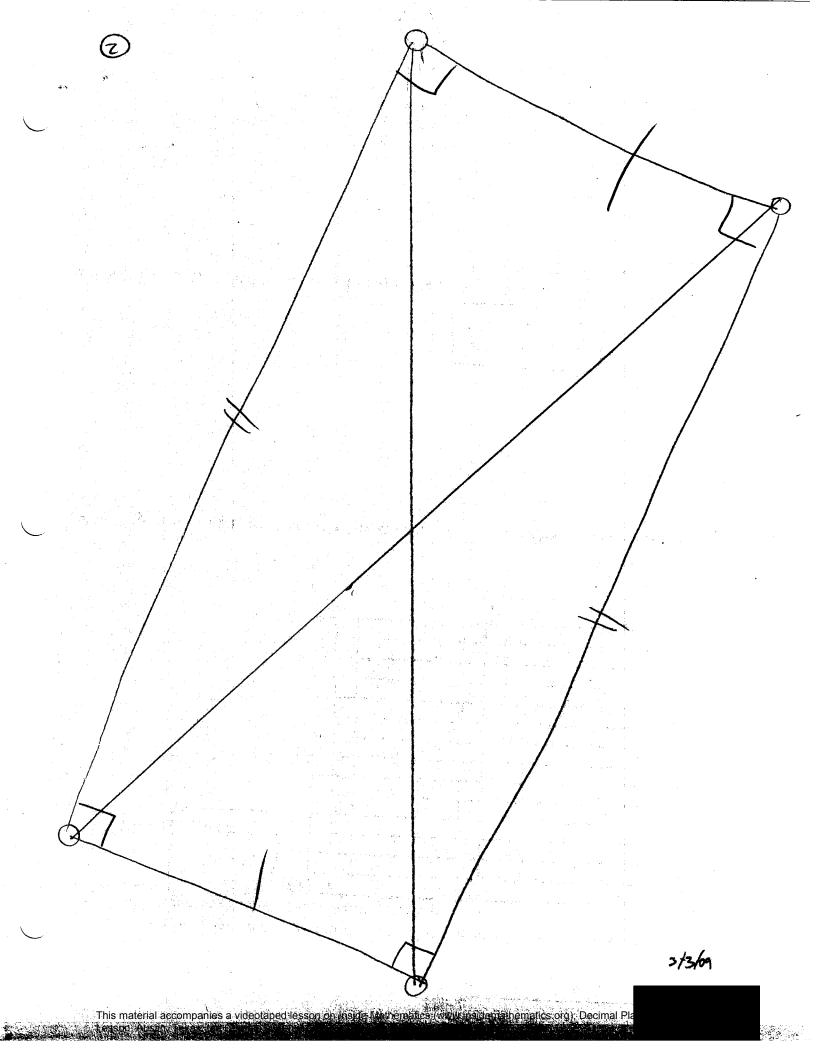
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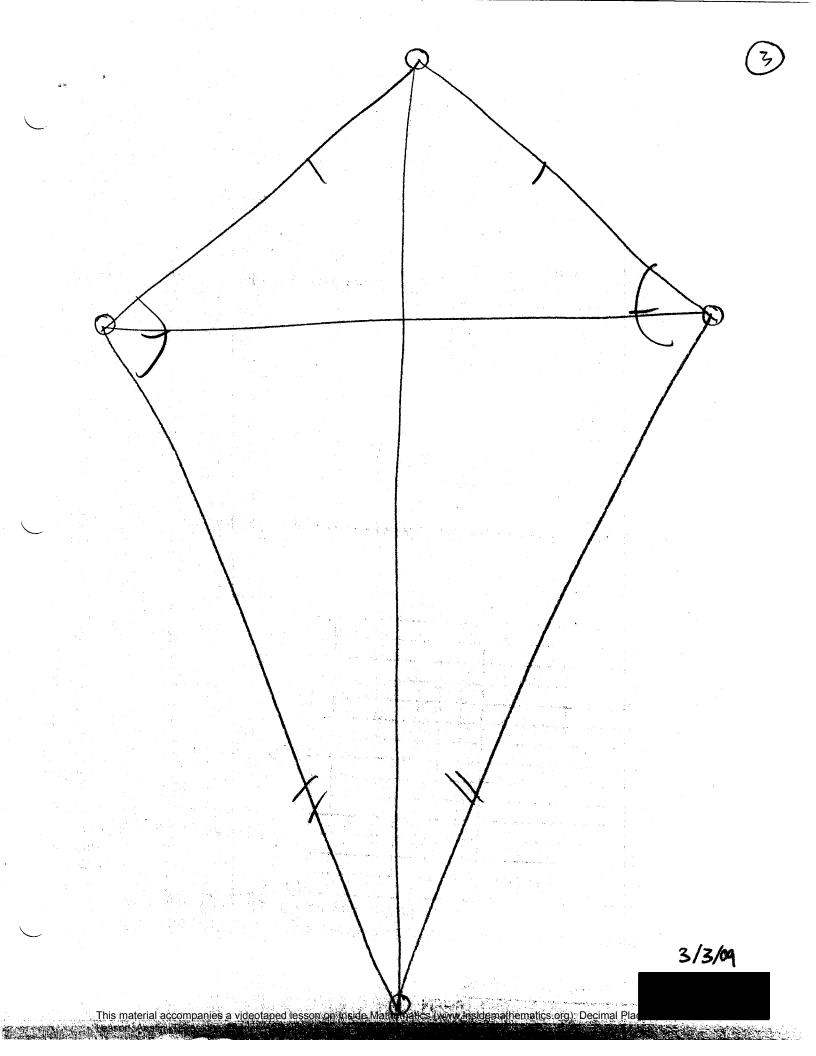


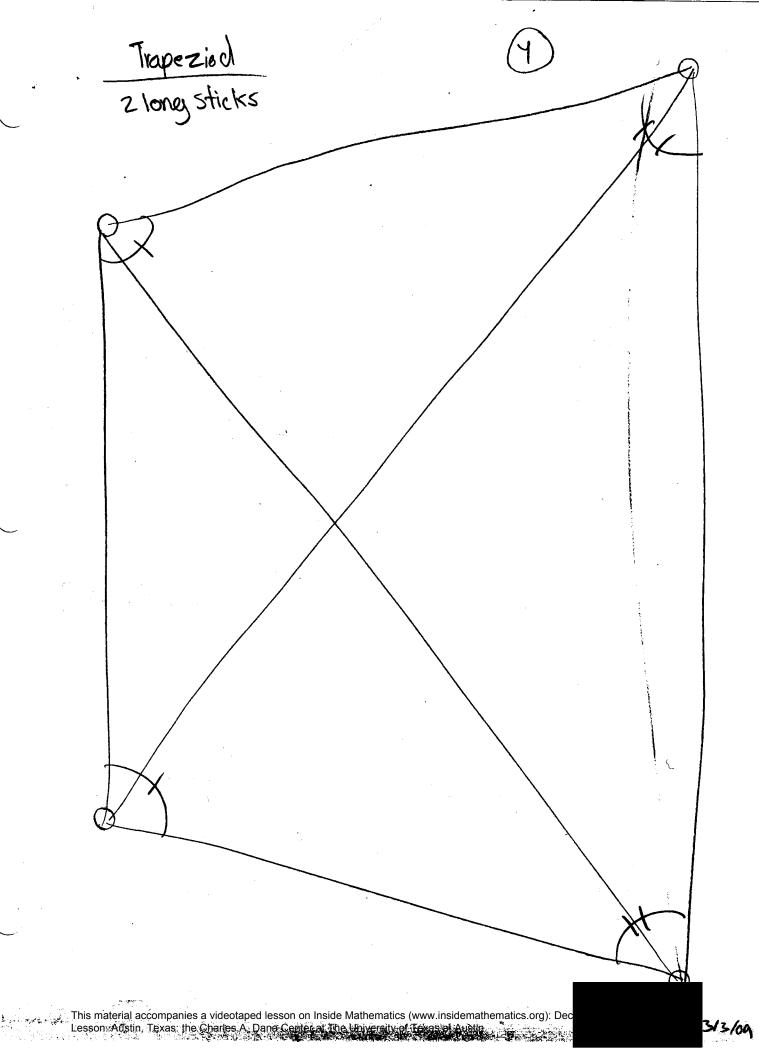
0 0 0 0 ρ 0 e 0 0 1 Ŷ 0 3 2 long (sauce, whom but pavralle lagran 2 longs center or both crectes square_ chombl porrallellagram center of one creates center (none) Icite) 1 Some point on both above conter (Trapezoid) 1

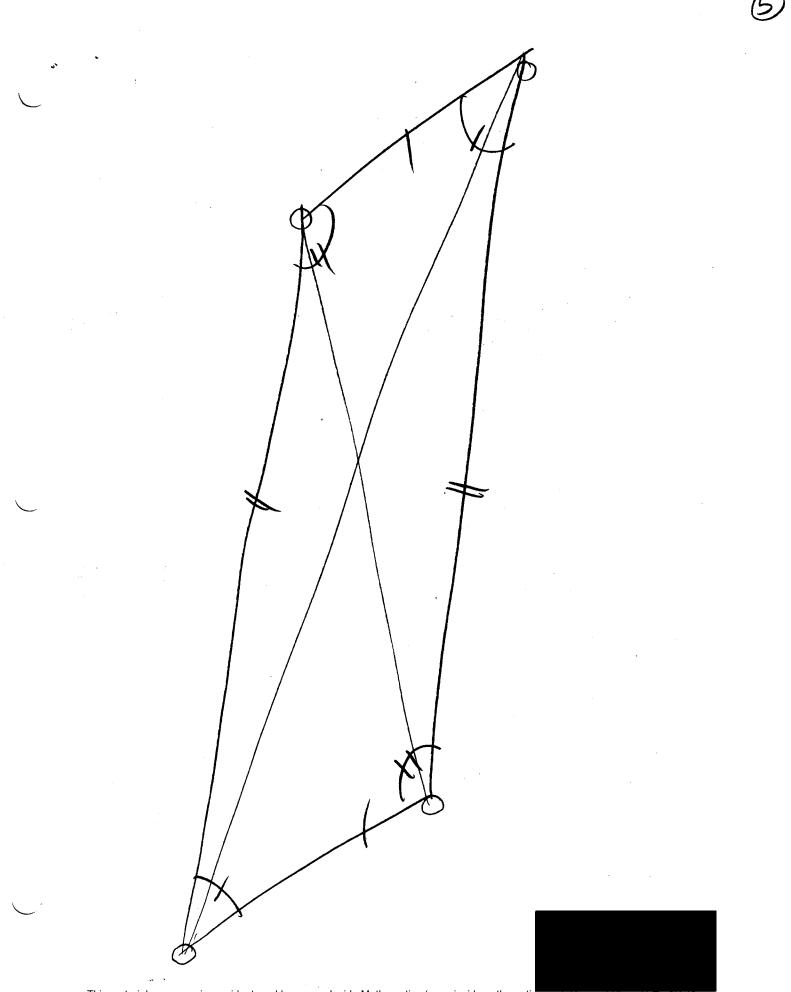
How can I prove that the kite maker is going to get the correct measurements, when you can't prove that any of the quadrik terats made are congruent, of for you don't know exactly what the onglos one and if segments are parrallele. For one can't assume with the maked eye.

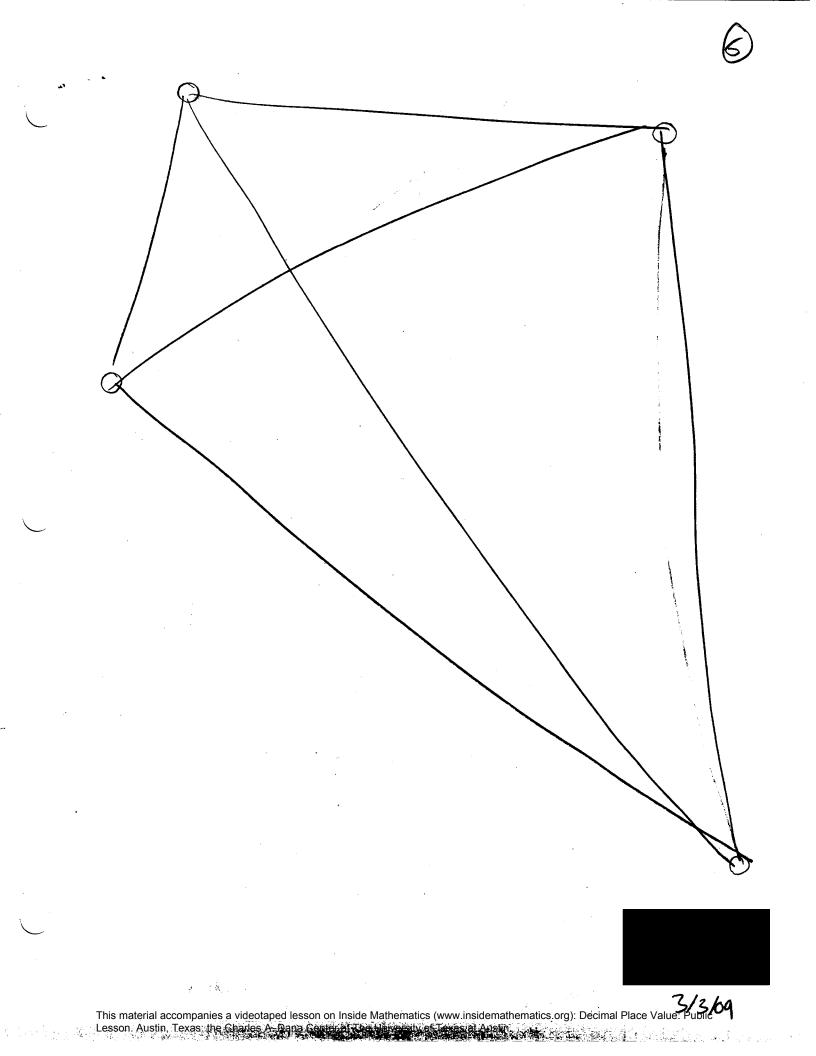


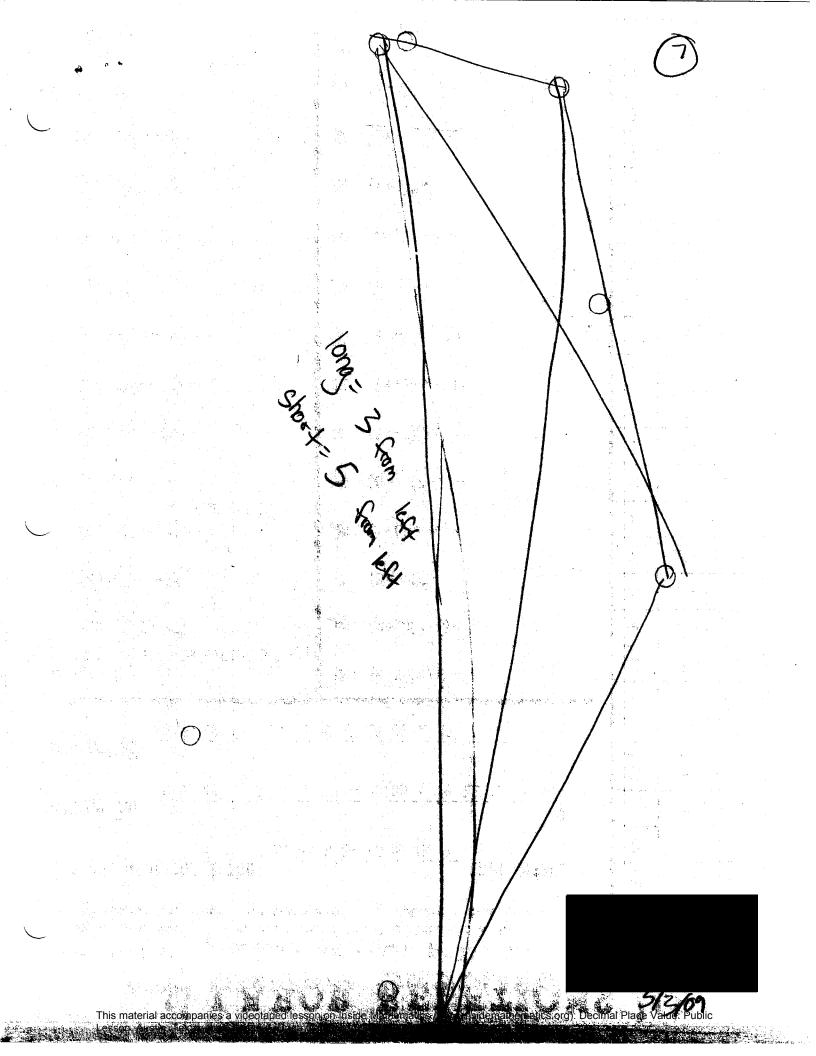






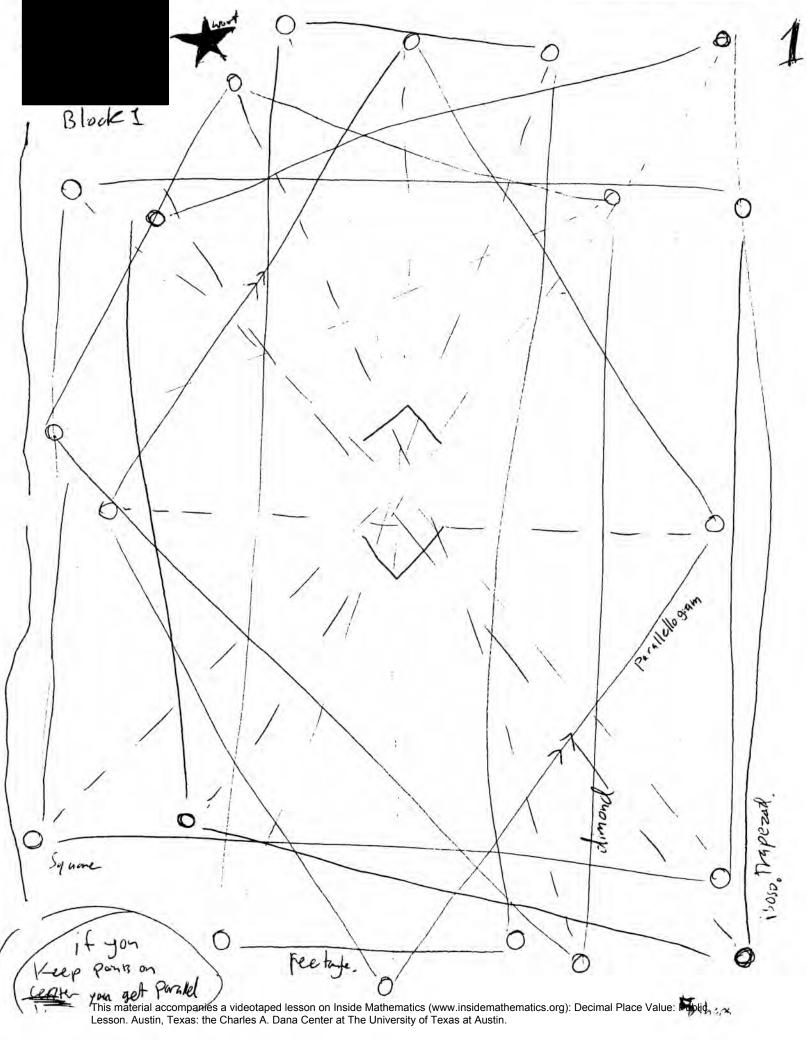




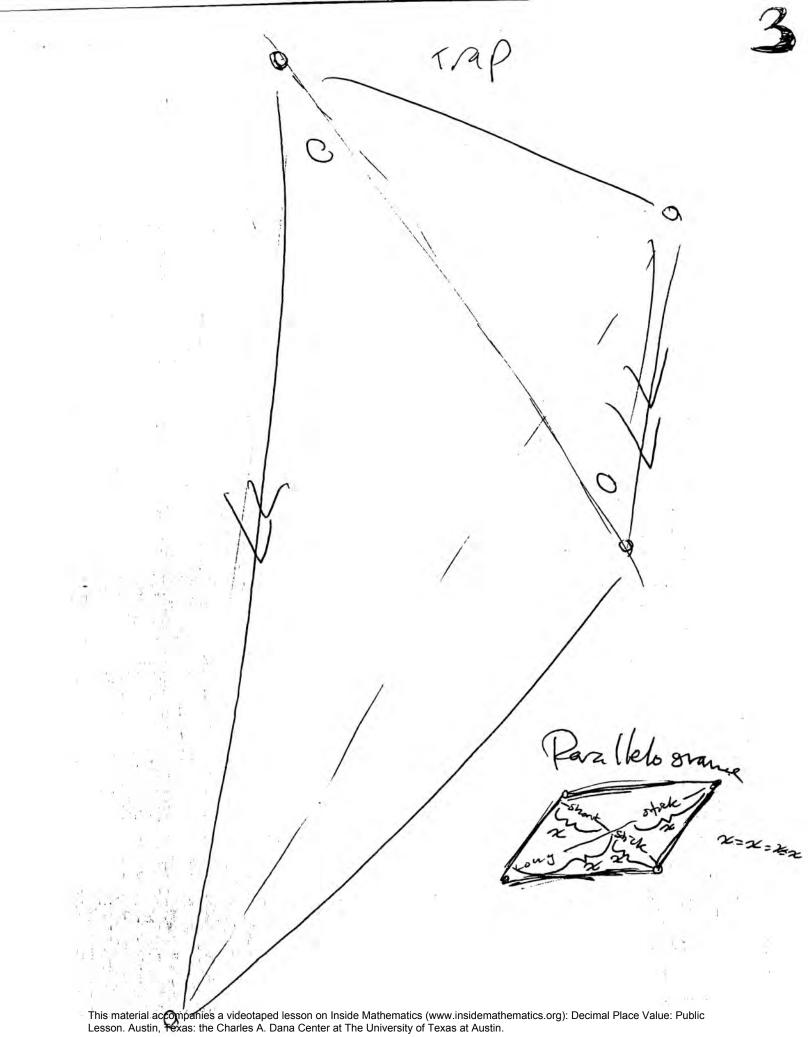


how to make I wonder if we figured out revery type of quadrilateral that is possible with these sticks. What I think that I did move and turn the sticks well lots of was of making could <u>a</u>____ What could improve on is to try every notch, stick, and angle arrange possible

I beleive that I set my info. up correctly for I put it into an orderly fashion and the classified it at the end. I need to write more \$0 = can prove my theory to a sceptic, not myself,



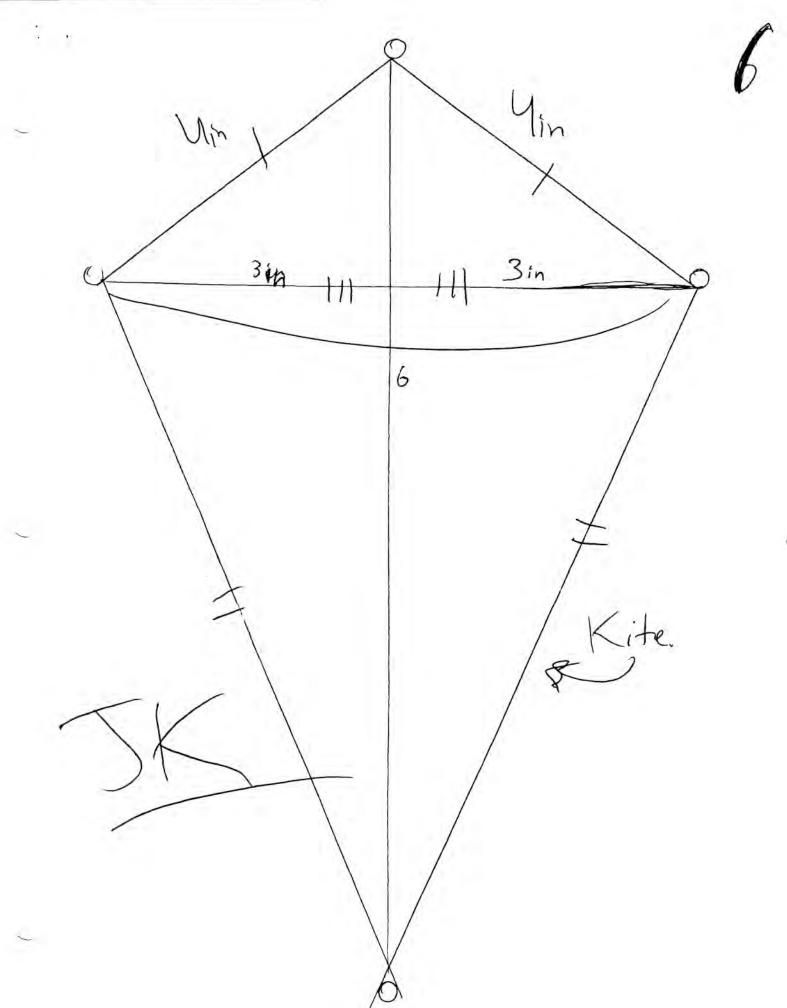
2 long ones Square re ctangle 1 = - - 1 rapizoid XT ETrapezium YOU Keep the intersecting point the same distance from the ends then the quadrilitient Will have a pair Of Para Ilel Times, Cit it is centered on both Times) a pairs of pully



Keep both sticks equadistant (anted) and at a 90° j , have Keep both boysticks equiditat Custand angles and at any Lexpt 90° and 180° steles, keep both Long sticks equidistal aperoid from the ends and it any L vapezoid exept

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To prove the parallel lines you have to measure the alternate systems angles and 247



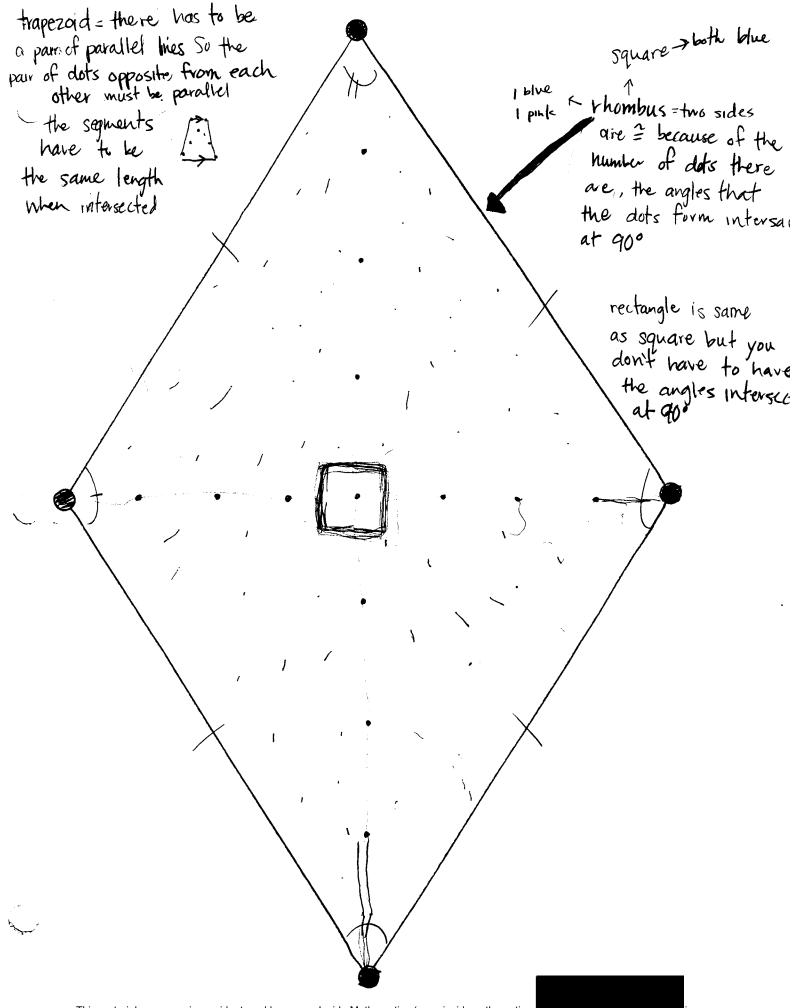
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f the diagonals are and they ittersed at the midpoint and the diagond are the same Length her the quadrilateral is a Square R aralle The Given given CD = AB= E = DA SAS A PEC EDBER cpctc LEAB FLECD alt sturks AB 11 PC Sas A ED = ALES LADE = LCBD Cpctc alt interior Ls. BZ AD 11 isosdes to zes have 2 conjunt is and 450

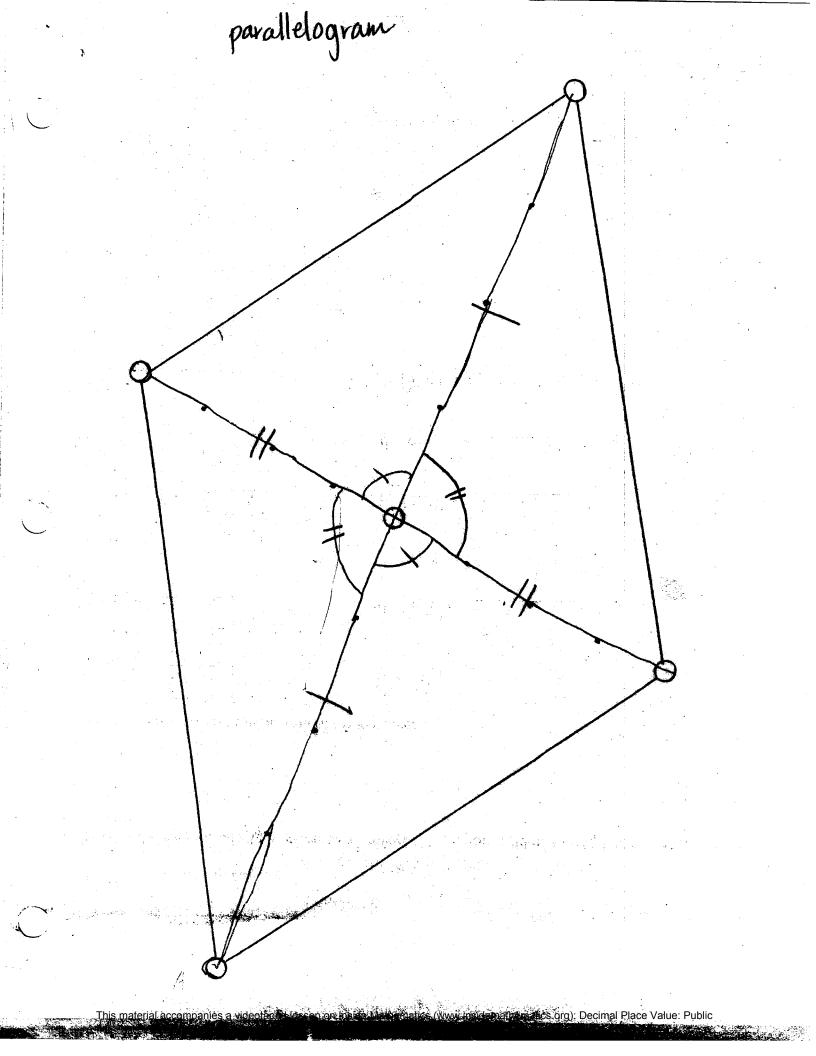
0, gam 2 purallel lites) Diagonals R @ midpt. ntest would be akite.) ven Piagonals P if some that rectangle) Lauperts = 2 diff it is a given add nens Sivens 1. SAS ACEDEAAEB 2. CPCTC 2. LPCE = LBAE 3. Alt. interv Los. 3. AB # DC 4 DBEL TODEA 4.5 A3 S LEad = & BCE S. CPCTC 5. Alt. intera LS 6. AD II BC This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

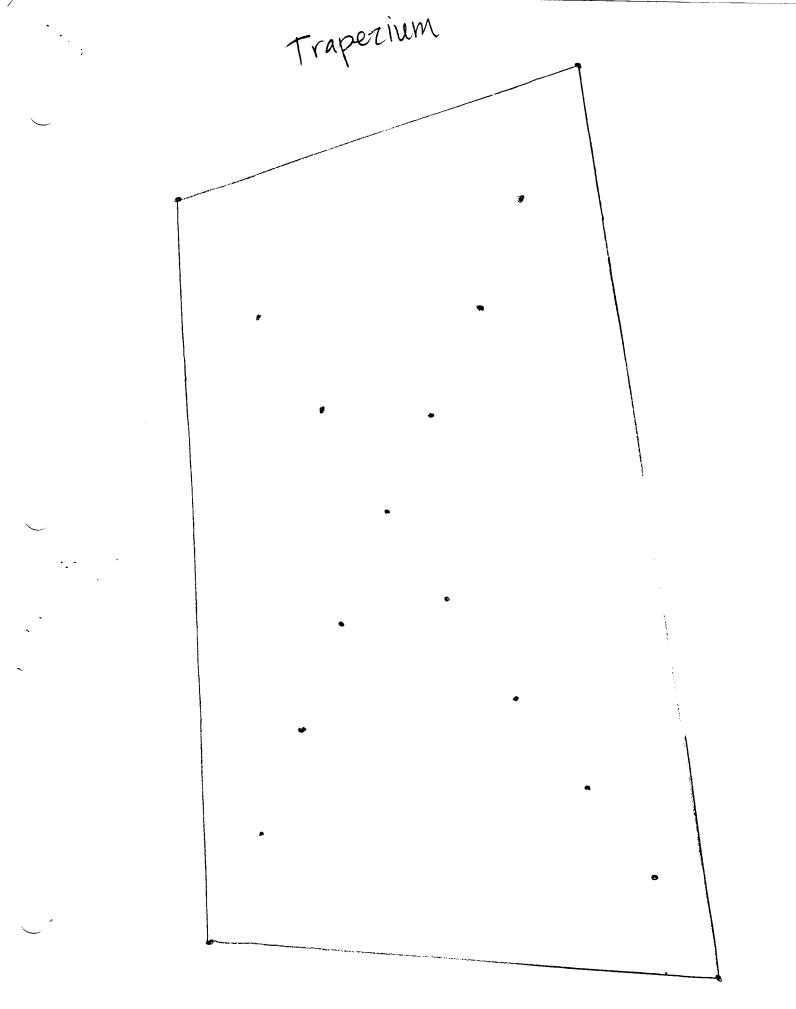
lon KS 1 A no 2 OL TITT

I think that all the diagrams I drew where used and helped alot. Next time I should write more observations on the side.



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Do the measures matter by the segments or by the dots?

What I think I did well: I think I did well in visualizing and sketching out the quadrilaterals. I also think I did well helping the group with discussing the problem.

Where I think I could improve : | think I can improve in explaining the problems more. And explaining what I found out better.