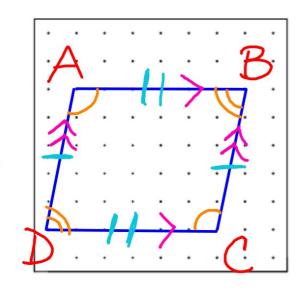
DIAGRAM

OF

PARALLELOGRAM



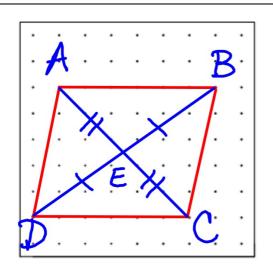
a	arallelo UNA DOSH	rila	lero		_with
7	bara	لللا		The	
opp	osite_			a	re
	Coma	went	7		The
орр		ano			are
	Comp	mer	七		
)			

$\begin{array}{l} \text{MAC} = \\ \text{m}\overline{\text{BD}} = \\ \\ \text{Since } \overline{\text{AC}} \text{ is } \underline{\text{NOt Congruent}} \\ \text{to } \overline{\text{BD}}, \text{ then the diagonals of parallelograms } \underline{\text{NOt Congruent}} \\ \\ \end{array}$	#1 ARE THE DIAGONALS CONGRUENT?	
	Since \overline{AC} is $\underline{NOTCMATVENT}$ to \overline{BD} , then the diagonals of	B

DIAGONAL INVESTIGATION

#2

DO THE DIAGONALS BISECT EACH OTHER?



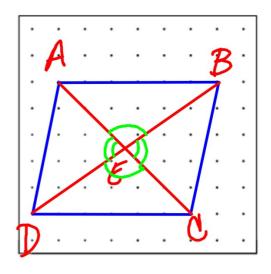
mDE =
$m\overline{BE} = $
Since DE & BE
then diagonal $\overline{ m DB}$
was bisected by AC
$m\overline{AE} = \phantom{AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA$
m CE =
Since AE & CE
then diagonal AC
was bisected by DB.

DIAGONAL INVESTIGATION

#3

ARE THE DIAGONALS PERPENDICULAR?

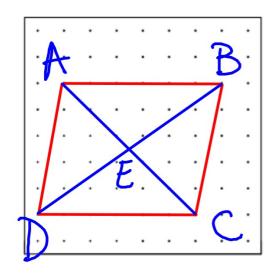
In order for the diagonals to be perpendicular, the angles formed at the intersection of the diagonals must be 90°. Since None of the angles 90°, the diagonals are Not Derben Cicular



DIAGONAL INVESTIGATION

#4

DO THE DIAGONALS BISECT VERTEX ANGLES?



<u>m∠DAC</u> =
<u>m∠CAB</u> =
Since ZDAC NOT CONQUENT
to ∠CAB, then ∠DAB (which is a
vertex angle) 15 not
bisected.
<u>m∠ABD</u> =
<u>m∠DBC</u> =
Since ∠ABD <u>NotCongnicate</u>
to ∠DBC, then ∠ABC (which is
a vertex angle) is no
bisecter.