1. Given Quadrilateral ABCD has the following vertices: $A(4,8) B(5,1) C(0,-4) D(-1,3)$ Use the distance formula to find the length of all four sides:			
$AB = \sqrt{50}$	$\frac{BC =}{\sqrt{50}}$	CD = \(\sqrt{5}\)	$\frac{DE =}{\sqrt{5D}}$
four congruent sides but no right angle: figure is a Rhombus			
M=	ABBC 8-1 7 M = 1-4 5-0 and BC are not perpendicular	= 5 Rhombi	RE RT4's

- 3. Use this true statement: If two lines are parallel, then they have the same slope.
- a. Write the converse of this statement.

If 2 lines have the same slope, then
they are !

b. Is the converse true?

They could be the same line

If yes, write the biconditional formed by the original conditional and its converse.

- 2. Is each biconditional true? If not, explain why.
- a) Two lines are perpendicular if and only if they intersect.

If two lines are perpendicular, then they intersect $\ensuremath{\text{TRME}}$

b) An angle is a straight angle if and only if it has a measure of 180°.

If an angle is a straight angle, then its measure is 180° TRUE If an angle has a measure of 180°, then it is a straight angle $\fill \cite{CME}$

- 4. Use this true statement: If a number is odd, then both of its factors are odd.
- a. Write the converse of this statement.

If both factors are odd, then the

b. Is the converse true?

If no, give a counterexample

If yes, write the biconditional formed by the original conditional and its converse.

A: # 15 odd Iff It's 2 factors