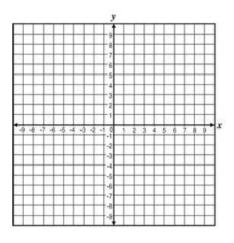
Untitled.notebook March 24, 2017

Geometry CC – Mr. Vale	entino	Name:	
Unit 10 Lesson 6: Provin	g Squares on the Coordinate Place	Date:	Per:
	And nowSQUARES on t	the Coordinate Plane 🙌	
ALT BETTER AND STREET AND A STREET AND ASSESSED.	that you can prove a parallelogram is	10 14 - 50 16 1 • 10 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	
1. Prove it	is a rectangle	with a	
pair of	= adjacent sid	es	
2. Prove	it is a rhombus	with a pair	
of I	\(\text{Adjacent side} \) \(\text{it is a chombus} \) \(\text{adjacent sides (if } \) \(\text{Adjacent sides (if } \) \end{adjacent sides (if } \) \(\text{Adjacent sides (if } \) \(\text{Adjacent sides (if } \) \(\text{Adjacent sides (if } \) \end{adjacent sides (if } \) \(\text{Adjacent sides (if } \) \(Adjac	- has a right 4)	
Therefore, we are going	to first prove that the quadrilateral is	a parallelogia	<u>n</u> using
distance fo	which is going to tell us a gre	eat amount of useful information abou	المستحداليال وريب مجافية
Let's do it!			\$2 slopes
1. Quadrilateral DANC h	as vertices D(-1,0), A(3,3), N(6,-1), and	d C(2,-4).	A 2 slopes A neg. sent
Prove that DANC is a sq	uare.		•
$DA = \sqrt{(-1-3)^{\frac{3}{4}}(0-1)^{\frac{3}{4}}}$	3)2	у	
= V (-4)2+(-	$\frac{1}{3)^2} = \sqrt{16+9} > \sqrt{25} = 9$	5	
$CN = a/\mu = 3$			
- 1.1.7 1.70	·	= 5	A H
AN = - \((6-3)^2+ (-1)	-312	D	 ,
$=\sqrt{(3)^2+1}$	$\frac{-3)^{2}}{4)^{2}} = \sqrt{9+16} = \sqrt{25} = \frac{1}{10+4}$ $\frac{-3}{10+4} = \sqrt{9+16} = \sqrt{25} = \frac{1}{10+16} = \sqrt{25} = \frac{10+16} = \sqrt{25} = \frac{1}{10+16} = \sqrt{25} = \frac{1}{$	9-8-7-5-5-4-3-2-1-1-2	N
$PC = \sqrt{(-1-2)^2 + (-1-2)^2}$	0+4)2		
0 (-2)21	$\frac{(4)^2}{(4)^2} = \sqrt{9+16} = \sqrt{25} = \sqrt{100}$	= 5	
γ (°3) +	(9) 1/1; + has.	105	
DANC is a.	P b/c it has si	Yes.	
A DANC is a	rhombus b/c it ha	5425ides.	
Slope DA = Ay	= 3-0 3 Slope	$AN = \frac{\Delta y}{\Delta x} = \frac{1}{6-3}$	= 3 With
TDANC is a	square bk i	tisa (nombas	×).
adja	cent L sides	t is a chombus (it has a right	71

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 H^{V} 2)Quadrilateral LOVE has vertices L(-2,-1), O(1,6), V(8,3), and E(5,-4).

Prove that LOVE is a square.



(3) Mr. Valentino is experimenting with a new drawing program on his computer. He created quadrilateral TINO with coordinates T(-2,3), I(-5,-4), N(2,-1), and O(5,6). Mr. Valentino believes that he has created a rhombus but not a square. Prove that Mr. Valentino is correct.

