Unit6 WS 5		Date:	Period:
State w	hether the following conjectures are true or false. If false, provide	a counter example of	or change the
	ent to make it true.		5
1.	If a quadrilateral is a parallelogram, then two pairs of opposite sid	es are congruent.	
2.	If a quadrilateral is a parallelogram, then the diagonals bisect each	other.	
3.	If a quadrilateral is a parallelogram, then the diagonals are perpen	dicular.	
4.	If a quadrilateral is a rectangle, then at least one angle is a right an	gle.	
5	If a quadrilateral is a square, then the diagonals are congruent.		
5.			
6.	If a quadrilateral is a rhombus, then the interior triangles are all iso	osceles.	
-	16 H H H H H H H H H		
7.	If a parallelogram is a rhombus, then the opposite sides are paralle	21.	
8.	If a quadrilateral is a parallelogram, then the diagonals bisect the c	opposite angles.	
9.	If a quadrilateral is a square, then consecutive angles are supplement	entary.	
10.	If a quadrilateral is a rectangle, then the diagonals bisect the oppo	site angles.	
11. Rect	angle NOPQ	<b>N</b> 7	
	$m \angle PNO = 25^{\circ}$	N	0
	m∠QNO = m∠NPQ =		Z
	m∠QNP = m∠NPO =	Q	P
			I

12. Use rhombus ABCD and the	given information to solve. If $m<3 \ne 3 = (2x + 30)^{\circ}$ and $m<4 = (3x - 1)^{\circ} \ne 4 = 3x - 1$ .				
Find x.					
B					
4					
$A \leftarrow \frac{2}{1} \qquad 6 \qquad c$					
1 5 0					
D					
Name all the quadrilaterals (parallelogram, rectangle, rhombus, or square) that have each property.					
13. All angles are congruent.					
14. Both pairs of opposite sides are parallel.					
15. All sides are congruent.					
13. All sides are congruent.					
16. Both pairs of opposite sides are congruent.					
17. It is equiangular and equilateral.					
18. Given: <i>DCBT</i> DCBT is a rhombus;					
$\angle RTD \cong \angle FCD$					
F F					
Prove: $\overline{RD} \cong \overline{DF}$					
Statements	Reasons				
	ТВ				