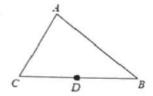
Untitled.notebook November 16, 2016

Geometry CC – Mr. Valentino	Name:		
Unit 5 Lesson 2: Introduction t	o Proofs! Date: _	Period:	
Do Now: Fill in the blank with the	e correct word that fits the definition	on	
Segment Bisector	Altitude	Supplementary Angles	
Angle Bisector	Midpoint	Complementary Angles	
Perpendicular Lines	Vertical Angles	Median	
82	L i near Pair		
1. The	is the point on the line s	segment that divides the segment into two	
congruent segments.			
2. A	is any line or part of a line	that intersects a line segment at its	
midpoint.			
3. A	3. A is a line segment extending from any vertex of a triangle to the		
midpoint of the opposite	side.		
4. An is a ray whose endpoint is the vertex of the angle and which divid			
the angle into two congru	uent angles.		
5	are two lines which intersect	to form right angles.	
6. The is a line segment extending from any vertex of a triangle,			
perpendicular to the opp	osite side.		
7	are two nonadjacent angles	formed by two intersecting lines.	
8	are two angles whose sum is	re two angles whose sum is 90°.	
9	are two angles whose sum is	; 180°.	
10.	are adjacent supplementary	angles.	
	Why Study Proof	s?	
You use proofs every day, without	out knowing it. Geometry is logical	and it teaches you how to think and prove	
that things are so, step by step b	y step. Proofs are excellent lesson	s in reasoning. Without logic and reasoning,	
you are dependen	t on jumping to conclusions or WC	DRSE, having empty opinions!	
A Geometry Proof is a	a logical argument that establishes	the of a statement.	

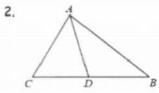
Two Column Proofs

For each question, draw a conclusion based on the given information (use the vocabulary on the first page to help guide you)

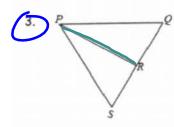
1.



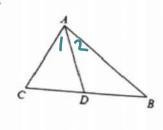
Statements	Reasons
1. D is the midpoint of $\overline{\textit{CB}}$.	1. Given
2.	2.



Statements	Reasons
1. \overline{AD} bisects \overline{CB} .	1. Given
2.	2.

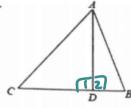


4.

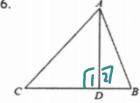


Statements	Reasons
 PR is a median in ΔPQS. R is the Midpoint of 	2. A median conveds the vertex to the midpoint of
SR = QR Statements	Reasons
1. AD bisects ∠CAB. 2. 41542	1. Given An angle bisect of 2. Livius anangle into 2 = 45

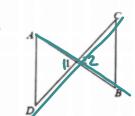
5.



6.



7.



Stat	eme	nts

1. \overline{AD} is an altitude in $\triangle ABC$. 1. Given

Statements

2. \$1 and \$2 are 900 \$'s

Reasons

to the opposite side

Reasons

1. Given
2. I lines form

right 4's

1. AD	<u>CB</u>	
2. 4	e (ight	7
6	e (ight	
	1/2	

Reasons

Al	3 6	D.	
1.	and	🧷 in	tersect.

Statements

1. Given

Statements



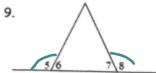
 ∠1 and ∠2 are complementary.

2. \$1+\$2

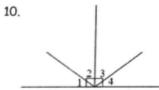
1. Given

Reasons

2. Complementaly
have a sum
of 90°



Statements	Reasons
1. ∠5 ≅ ∠8	1. Given
2. 46=47	2. Supplements of = x1s are =



Statements	Reasons
1. ∠1 ≅ ∠4 2. ¥2 ≅ ¥3	1. Given 2. Complements of \$\frac{4}{5}\$ \(\alpha \) \(\alpha \) \(\alpha \)