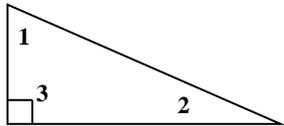


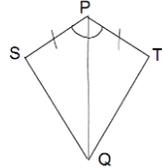
Challenge Test Review Proofs
Algebra 2 Honors

Name: _____

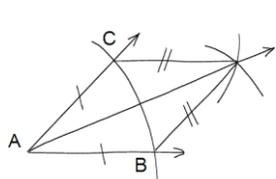
Proof #1

<p>Given: a triangle with $m\angle 3 = 90^\circ$</p> <p>Prove: $\angle 1$ and $\angle 2$ are complementary</p>	
Statements	
<p>1. $m\angle 3 = 90^\circ$</p>	<p>1. Given</p>

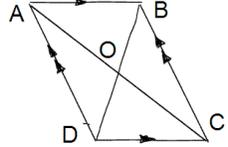
Proof #2

<p>Given: PQ bisects $\angle SPT$, $SP \cong PT$</p> <p>Prove: $\triangle SPQ \cong \triangle TPQ$</p>	
Statements	
<p>1. PQ bisects $\angle SPT$, $SP \cong PT$</p>	<p>1. Given</p>

Proof #3

	<p>Given: $AB \cong AC$, $BD \cong CD$</p> <p>Prove: AD bisects $\angle CAB$</p>
Statements	
<p>1. $AB \cong AC$, $BD \cong CD$</p>	<p>1. Given</p>

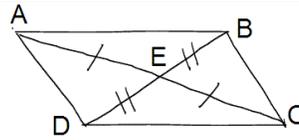
Proof #4

<p>Given: p'gram ABCD w/ diagonals AC & BD</p> <p>Prove: $AO \cong OC$ and $DO \cong OB$</p>	
Statements	
<p>1. p'gram ABCD w/ diagonals AC & BD</p>	<p>1. Given</p>

Proof #5

Given: $AE \cong EC$, $DE \cong EB$

Prove: ABCD is a p'gram

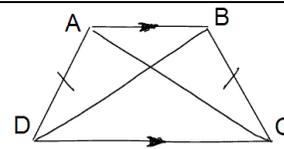


Statements	Reasons
1. $AE \cong EC$, $DE \cong EB$	1. Given
ABCD is a p'gram	Defn of a p'gram

Proof #6

Given: trapezoid ABCD
 $AD \cong BC$

Prove: $AC \cong BD$

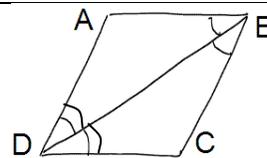


Statements	Reasons

Proof #7

Given: p'gram ABCD
 $\angle CBD \cong \angle ABD$, $\angle BDC \cong \angle BDA$

Prove: ABCD is a rhombus



Statements	Reasons