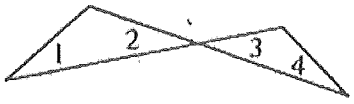
Name: _____ Date: _____ Hour: _____

Angle Proof Homework #1

1. *Given:* $\angle 1 = \angle 2$
$\angle 3 = \angle 4$

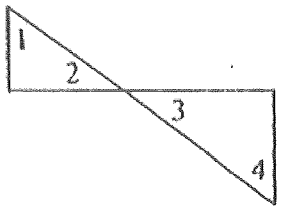
Prove: $\angle 1 = \angle 4$



1. _____	1. Given
2. _____	2. _____
3. _____	3. substitution
4. _____	4. _____

2. *Given:* $\angle 1$ and $\angle 2$ are complements.
$\angle 3$ and $\angle 4$ are complements.

Prove: $\angle 1 = \angle 4$



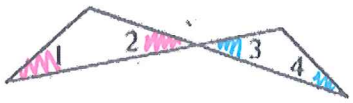
1._____	1. Given
2. _____	2. def of _____
3. _____	3. Substitution
4. _____	4. Vertical angles are _____
5. _____	5. Substitution
6. _____	6. Subtraction

Name: Key Date: _____ Hour: _____

Angle Proof Homework #1

1. *Given:* $\angle 1 = \angle 2$
$\angle 3 = \angle 4$

Prove: $\angle 1 = \angle 4$

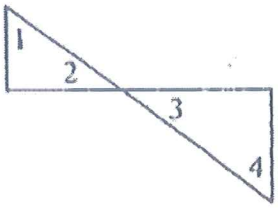


1. $\angle 1 \cong \angle 2$ $\angle 3 \cong \angle 4$		1. Given
2. $\angle 2 \cong \angle 3$		2. Vertical $\angle$s are $\cong$
3. $\angle 1 \cong \angle 3$		3. substitution
4. $\angle 1 \cong \angle 4$		4. Substitution

} Steps 3 & 4 could be Put together :)

2. *Given:* $\angle 1$ and $\angle 2$ are complements.
$\angle 3$ and $\angle 4$ are complements.

Prove: $\angle 1 = \angle 4$



	$\angle 1$ and $\angle 2$ are compl.	
1. $\angle 3$ and $\angle 4$ are compl.		1. Given
$\angle 1 + \angle 2 = 90$		
2. $\angle 3 + \angle 4 = 90$		2. def of compl.
3. $\angle 1 + \angle 2 = \angle 3 + \angle 4$		3. Substitution
4. $\angle 2 \cong \angle 3$		4. Vertical $\angle$s are $\cong$
5. $\angle 1 + \angle 2 = \angle 2 + \angle 4$		5. Substitution
6. $\angle 1 \cong \angle 4$		6. Subtraction