Name _____

Introduction to Geometric Proofs with Angles

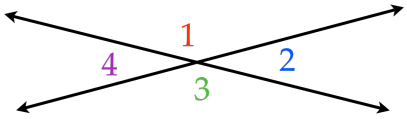
Date _____ Period _____

Geometric Proofs

To prove a statement given specific information.

Given: $\angle 1$ and $\angle 3$ are vertical angles.

Prove: $\angle 1 \cong \angle 3$

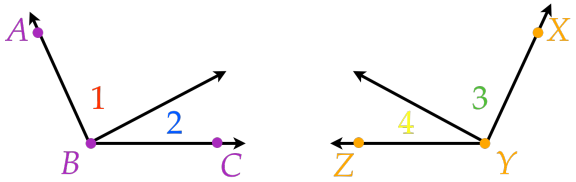


Statements	Reasons (definitions and theorems)

Given: $m\angle ABC = m\angle XYZ$

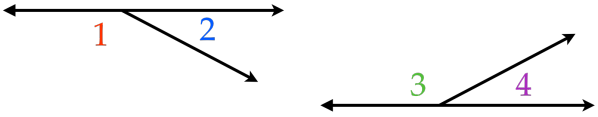
$m\angle 1 = m\angle 3$

Prove: $m\angle 2 = m\angle 4$



Statements	Reasons (definitions and theorems)

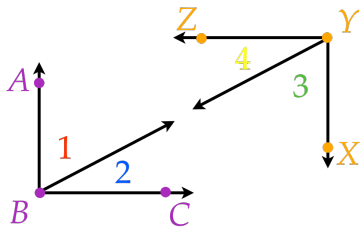
Given: $\angle 1$ and $\angle 2$ form a linear pair
$\angle 3$ and $\angle 4$ form a linear pair
$\angle 3 \cong \angle 1$
Prove: $m\angle 2 = m\angle 4$



Statements	Reasons (definitions and theorems)

Statements	Reasons

Given: $\angle ABC$ is a right angle
$\angle XYZ$ is a right angle
$\angle 3 \cong \angle 1$
Prove: $\angle 2 \cong \angle 4$



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