

Proving Triangles Congruent: HL Theorem 15.4

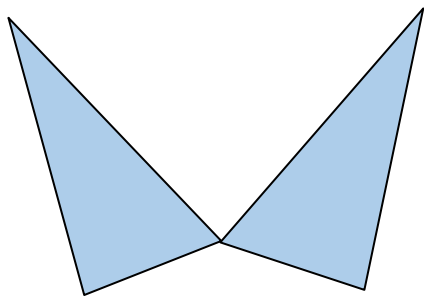


Overview of Problems

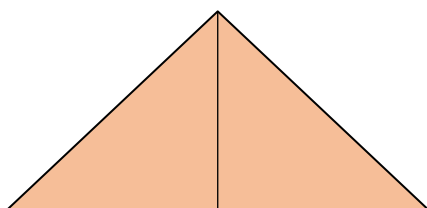
Example Set: A

Add more information to the figures so that one could prove the triangles are congruent using the HL Theorem:

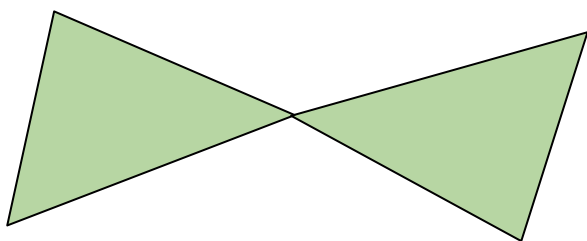
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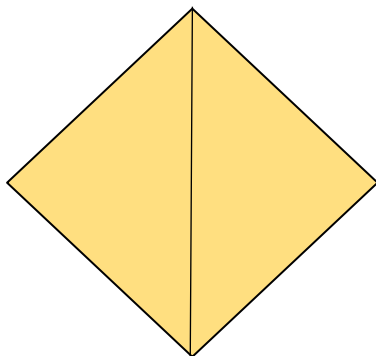
2.



3.



4.



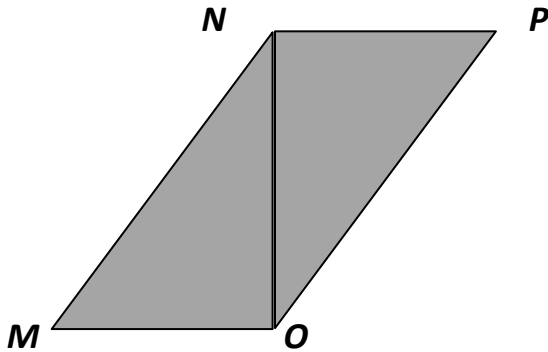
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Overview of Problems

Example Set: B

1.



Given: $NP \perp NO, MO \perp NO$

$MN \cong OP$

Prove: $\angle M \cong \angle P$

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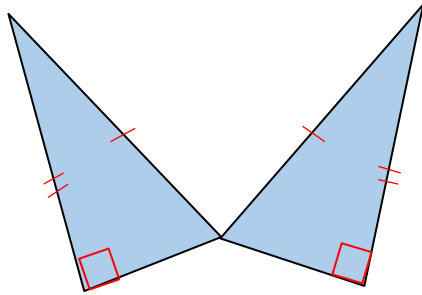


Overview of Problems

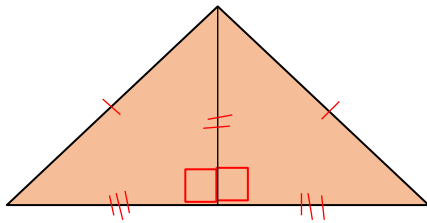
Example Set: A -ANSWER KEY

Add more information to the figures so that one could prove the triangles are congruent using the HL Theorem:

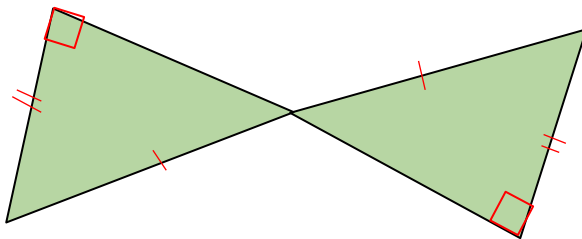
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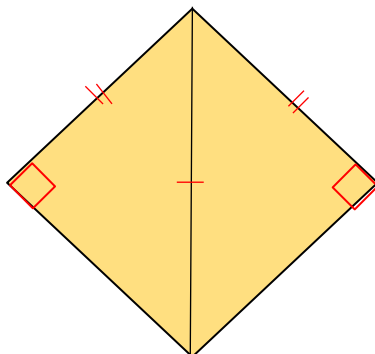
2.



3.



4.



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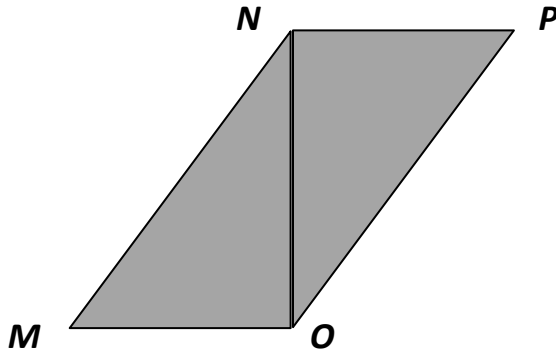


Overview of Problems



Example Set: B- ANSWER KEY

1.



Given: $NP \perp NO, MO \perp NO$

$MN \cong OP$

Prove: $\angle M \cong \angle P$

Statement	Reason
$NP \perp NO, MO \perp NO$	Given
$\angle MON, \angle PNO$ are rt. \angle 's	Def. of \perp lines
$\triangle MON, \triangle PNO$ are rt. \triangle	Def. of rt. \triangle 's
$MN \cong OP$	Given
$NO \cong NO$	Ref. Prop.
$\triangle MON \cong \triangle PNO$	HL Thm.
$\angle M \cong \angle P$	CPCT are \cong

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Overview of Problems
