

Angle Angle Side Worksheet and Activity

This worksheet contains 9 Angle Angle Side Proofs including a challenge proof and a Think Pair Share (at the end)

URL on the Angle Angle Side Postulate

http://www.mathwarehouse.com/geometry/congruent_triangles/angle-angle-side-postulate.php

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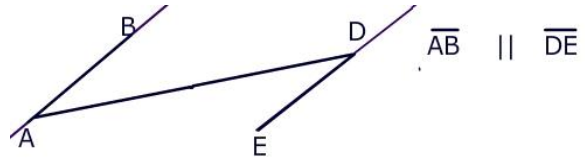
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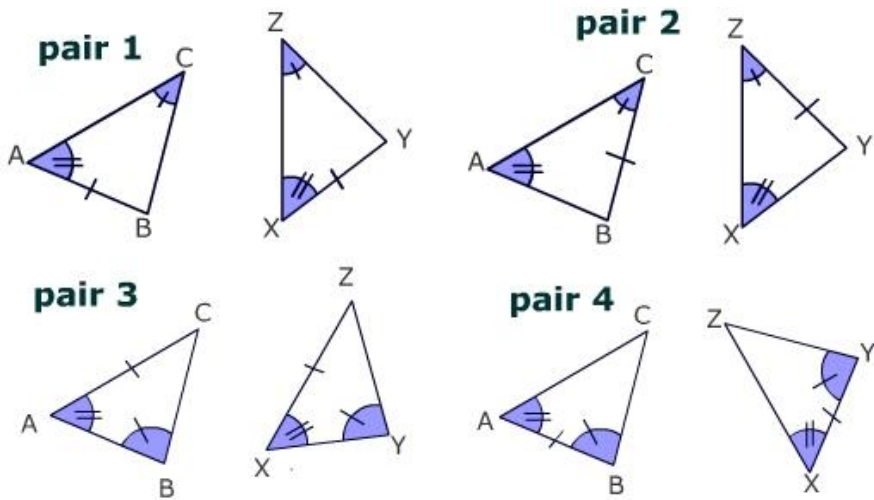
Warm Up

Why is $\angle BAD \cong \angle ADE$?



Identify Angle Angle Side Relationships

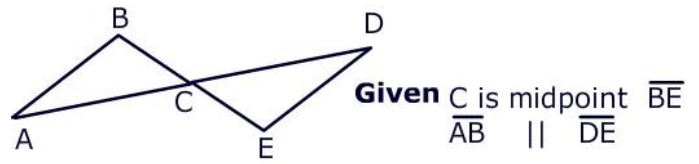
Which pair of triangles below does NOT illustrate the AAS relationship?



Proof A)

(web powerpoint)

Prove $\triangle ABC \cong \triangle EDC$



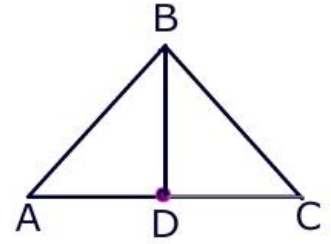
Proof B)

Given:

\overline{BD} is an altitude

$\angle BAD \cong \angle BCA$

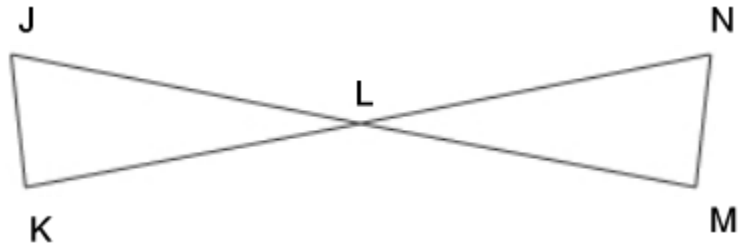
Prove: $\triangle ABD \cong \triangle CBD$



Proof C)

Given: JM bisects KN,
 $\angle K \cong \angle N$

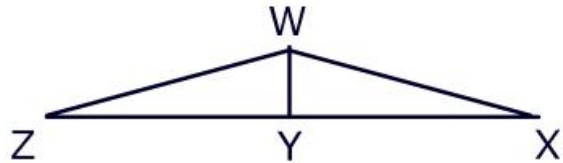
Prove: $\triangle JLK \cong \triangle MLN$



Proof D)

Given: WY bisects $\angle ZWX$
 $\angle Z \cong \angle X$

Prove: $\triangle WYZ \cong \triangle WYX$

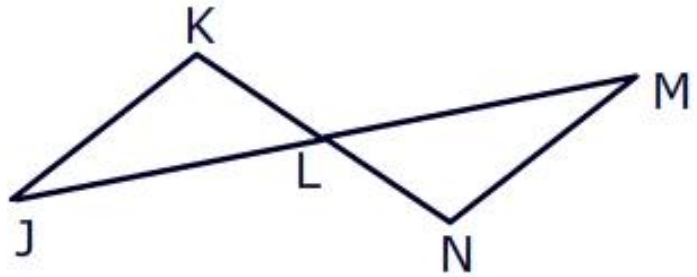


Proof E)

Given: $JK \parallel MN$

L is the midpoint of KN

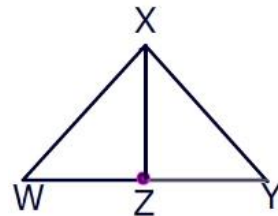
Prove: $\triangle JLK \cong \triangle MLN$



Proof F)

XZ bisects $\angle WXY$

$\angle XWZ \cong \angle XYZ$

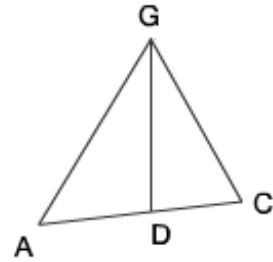


Proof G)

drawing not to scale

Given: \overline{DG} bisects $\angle AGC$, $\angle GCD \cong \angle GAD$

Prove: $\triangle GCD \cong \triangle GAD$

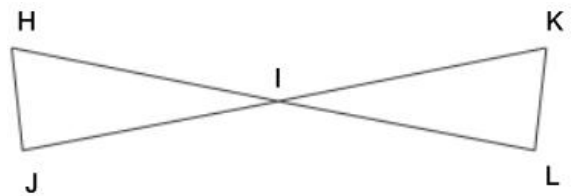


Proof H)

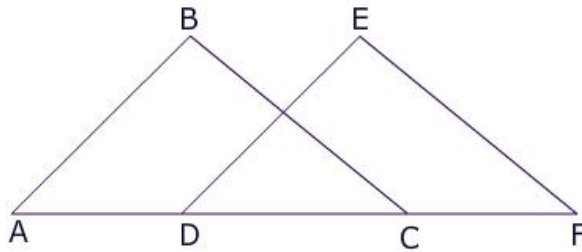
Given : HL bisects JK,

$\angle H \cong \angle L$

Prove: $\triangle JHI \cong \triangle LKI$



Proof I (*Challenge proof) [Web PowerPoint Solution](#)



Prove $\triangle ABC \cong \triangle DEF$

Given $\overline{BC} \parallel \overline{EF}$
 $\overline{AD} \cong \overline{CF}$
 $\angle ABC \cong \angle DEF$

Think Pair Share:

Is the following statement true or false? Explain your answer

“ANY TWO TRIANGLES THAT CAN BE PROVEN CONGRUENT BY ANGLE SIDE ANGLE CAN ALSO BE PROVEN CONGRUENT BY ANGLE ANGLE SIDE”

Explanation:

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