

SLO: I can prove triangles are congruent by SAS, ASA, and AAS and know when to use each postulate or theorem.

☺☺☺☺ Today is a GREAT day to think mathematically! Let's get organized first. ☺☺☺☺

TABLE OF CONTENTS: **11/29 SAS, ASA, and AAS triangle congruence**

NEW NOTEBOOK PAGE: **11/29 SAS, ASA, and AAS triangle congruence - Name**
SLO: I can prove triangles are congruent by SAS, ASA, and AAS and know when to use each postulate or theorem.

Assignment Sheet: **11/29 CW: SAS, ASA, and AAS triangle congruence Due 11/29**
11/29 HW: SAS, ASA, and AAS triangle congruence Due 11/29

DO NOW SHEET: **Name, Date, Period, complete the conditional statement in flowchart format:**
"If D is the midpoint of segment IK, then _____."

LESSON: (Record all work in your notebook.)

Notes (Copy into your notebook and draw a box around them)

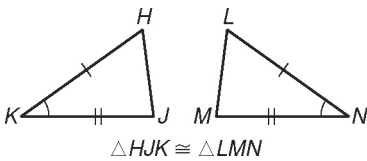
Three Triangle Congruence Postulates:

2 \triangle s have 2 pairs of \cong corresponding sides and a pair of included \cong corresponding \angle s,

Given

The triangles are congruent

SAS \cong postulate

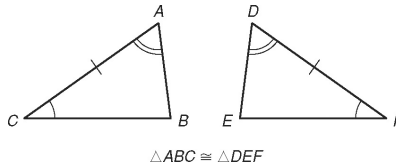


2 \triangle s have 2 pairs of \cong corresponding \angle s and a pair of included \cong corresponding sides

Given

The triangles are congruent

ASA \cong postulate

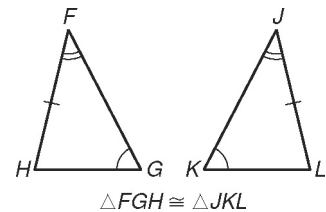


2 \triangle s have 2 pairs of \cong corresponding \angle s and a pair of NOT included \cong corresponding sides

Given

The triangles are congruent

AAS \cong theorem



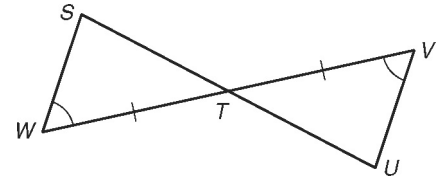
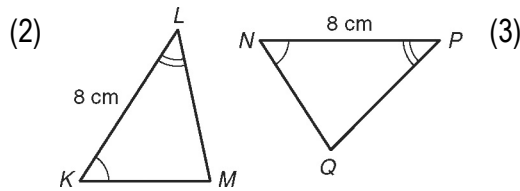
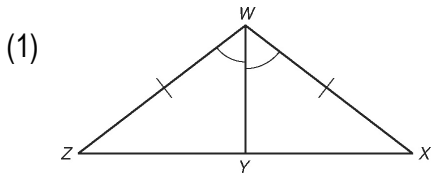
FOR THE CLASSWORK YOU MAY NEED TO USE:

- Vertical Angles Theorem
- Reflexive Property
- Definition of Midpoint
- Definition of Bisect

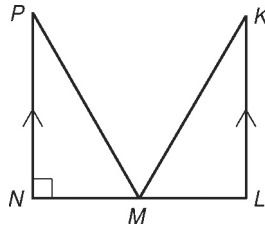
NOTE, two of the pairs cannot be proven congruent.

SLO: I can prove triangles are congruent by SAS, ASA, and AAS and know when to use each postulate or theorem.

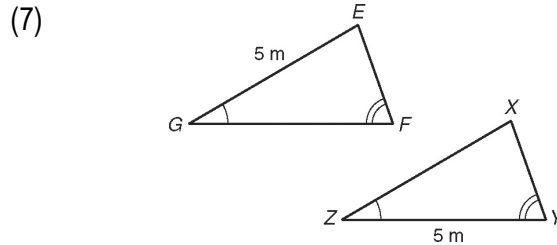
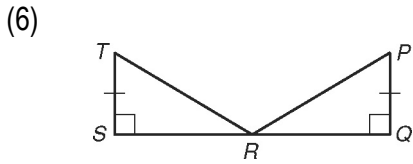
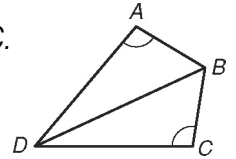
CW: In your notebook, write a flowchart proof to show that each pair of triangles are congruent.



(4) M is the midpoint of \overline{NL}



(5) \overline{BD} is the angle bisector of $\angle ADC$.



HOMEWORK: 11/29 congruent triangles SSS, ASA, AAS, SAS.

EXIT

BACK OF DO NOW SHEET: Today my level of understanding is 😊 😐 😞 because _____ State whether the triangles can be proven congruent by SSS, ASA, AAS, SAS, or none of these. Explain.

