Mouth a Quiz Fiday # Hand in HW Packet Created with Doceric Vocabulary -

Midpoint -

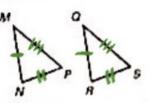
Reflexive Property -

SIDE-SIDE-SIDE (SSS) CONGRUENCE POSTULATE

If three sides of one triangle are congruent to three sides of a second triangle, then the two triangles are congruent.

Side NP = RS, and

then AMNP = AOPS



SIDE-ANGLE-SIDE (SAS) CONGRUENCE POSTULATE

If two sides and the included angle of one triangle are congruent to two sides and the included angle of a second triangle, then the two triangles are congruent.

Angle LQ = LX, and

Side QS = XY.

then

APQS = AWXY.





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ANGLE-SIDE-ANGLE (ASA) CONGRUENCE POSTULATE

If two angles and the included side of one triangle are congruent to two angles and the included side of a second triangle. then the two triangles are congruent.

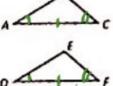


If Angle ZA = 4D.

Side AC & DF . and

Angle LC = 4F.

LABC & ADEF. then

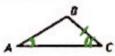


SSA

ASS

ANGLE-ANGLE-SIDE (AAS) CONGRUENCE THEOREM

If two angles and a nonincluded side of one triangle are congruent to two angles and the corresponding nonincluded side of a second triangle, then the two triangles are congruent.



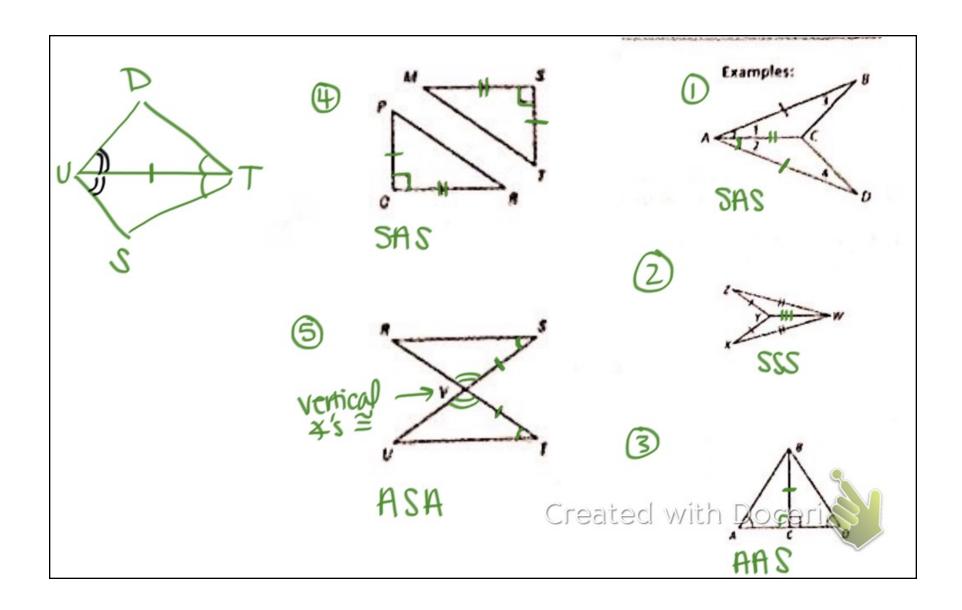


Angle ZAWA

Angle LC . F. and

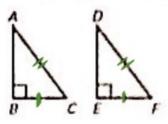
Side

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THEOREM 4.8: HYPOTENUSE-LEG (HL) CONGRUENCE THEOREM

If the hypotenuse and a leg of a right triangle are congruent to the hypotenuse and a leg of a second right triangle, then the two triangles are congruent.



If $\overline{BC} \cong \overline{EF}$ and $\overline{AC} \cong \overline{DF}$, then $\triangle ABC \cong \triangle \underline{ADEF}$

Practice Problems

Decide whether there is sufficient evidence to prove both triangles are equal. If so, name the congruence postulate or theorem, then write the statement of congruence.



