

SLO: I can identify pairs of congruent triangles and prove their congruence.

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

TABLE OF CONTENTS: **11/27 Triangle Congruence**

NEW NOTEBOOK PAGE: **11/27 Triangle Congruence - Name**
SLO: I can identify pairs of congruent triangles and prove their congruence.

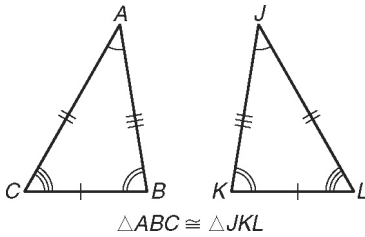
Assignment Sheet: **11/27 CW: Triangle Congruence Due 11/27**
11/27 HW: Triangle Congruence Due 11/28

DO NOW SHEET: **Name, Date, Period, and write the contrapositive of the statement:**
"If a pair of triangles are congruent, then the corresponding parts of the triangles are congruent."



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

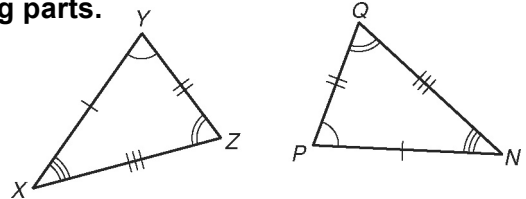
Congruence: Two shapes are congruent if all of their corresponding parts are congruent. Corresponding parts are in the same position as one another.



Corresponding Parts	
Congruent Angles	Congruent Sides
$\angle A \cong \angle J$	$\overline{AB} \cong \overline{JK}$
$\angle B \cong \angle K$	$\overline{BC} \cong \overline{KL}$
$\angle C \cong \angle L$	$\overline{CA} \cong \overline{LJ}$

Given: $\triangle XYZ \cong \triangle NPQ$. Identify the congruent corresponding parts.

1. $\angle Z \cong$ _____
2. $\overline{YZ} \cong$ _____
3. $\angle P \cong$ _____
4. $\angle X \cong$ _____
5. $\overline{NQ} \cong$ _____
6. $\overline{PN} \cong$ _____



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

Triangle Proof Example:

Given: $\angle D$ and $\angle B$ are right angles.

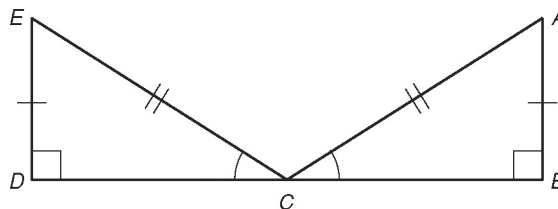
$\angle DCE \cong \angle BCA$

C is the midpoint of \overline{DB} .

$\overline{ED} \cong \overline{AB}, \overline{EC} \cong \overline{AC}$

Prove: $\triangle EDC \cong \triangle ABC$

You will need a full page of space for this proof.



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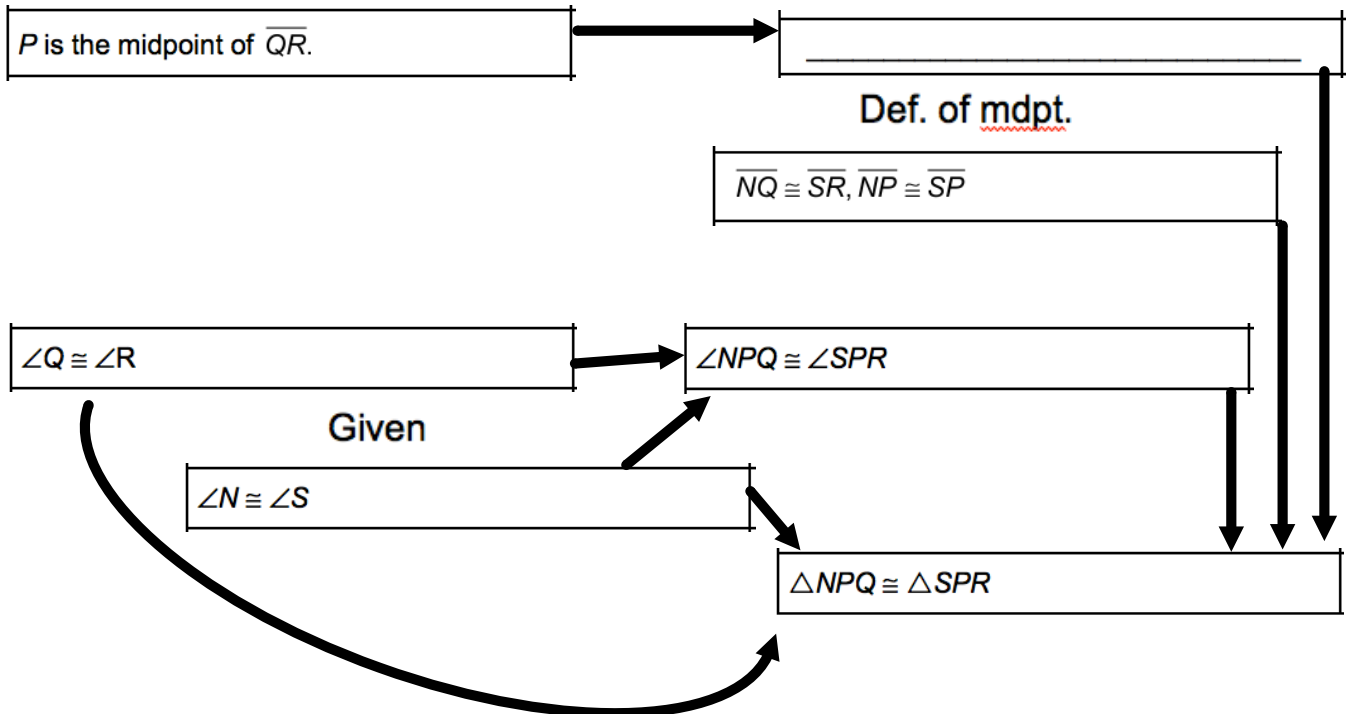
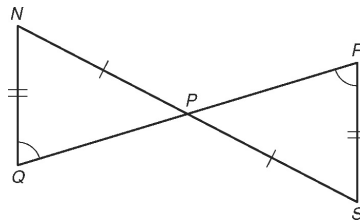
CW: Copy the information and diagram and complete the proof.

Given: $\angle Q \cong \angle R$

P is the midpoint of \overline{QR} .

$\overline{NQ} \cong \overline{SR}, \overline{NP} \cong \overline{SP}$

Prove: $\triangle NPQ \cong \triangle SPR$



HOMEWORK: Half sheet Practice A Triangle Congruence.

EXIT BACK OF DO NOW SHEET: Today my level of understanding is 😊 😐 😞 because _____
 Triangles are congruent when ...
 Parts are corresponding when ...