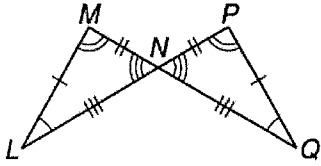


Name: _____

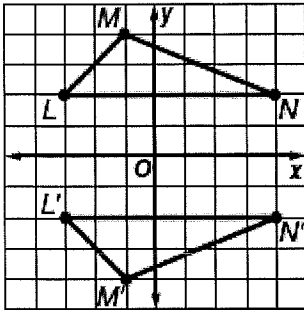
Congruent Triangles In-Class Practice

1) Identify the congruent triangles in the given figure



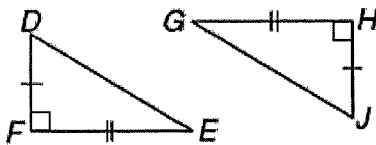
2) Verify that the following transformation preserves congruence.

$$\triangle LMN \cong \triangle L'M'N'$$



Use the given information to identify the congruent triangles. Describe what congruence shortcut you used and what angles or sides you know are congruent.

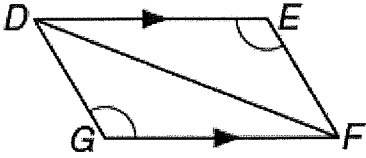
3.



a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts:

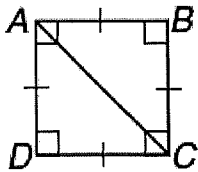
4.



a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts:

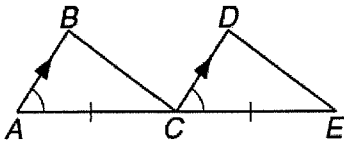
5.



a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts:

6.



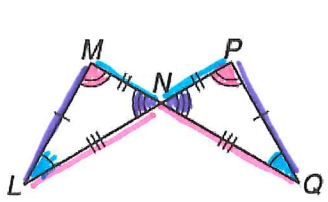
a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts

Name: Key

Congruent Triangles In-Class Practice

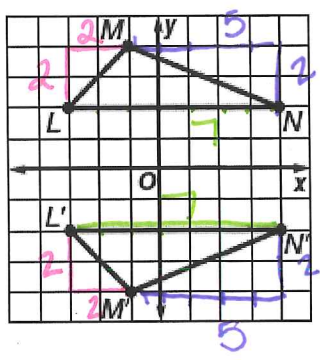
1) Identify the congruent triangles in the given figure



$\Delta QPN \cong \Delta LMN$

2) Verify that the following transformation preserves congruence.

$\Delta LMN \cong \Delta L'M'N'$

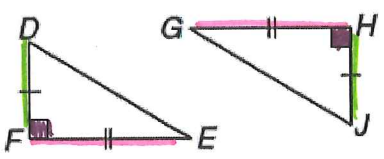


$LM: 2^2 + 2^2 = LM^2$
 $\boxed{2\sqrt{2} = LM}$
 $MN: 5^2 + 2^2 = MN^2$
 $25 + 4 = MN^2$
 $\boxed{\sqrt{29} = MN}$
 $\boxed{LN = 5}$ counted

$L'M': 2^2 + 2^2 = L'M'^2$
 $\boxed{2\sqrt{2} = L'M'}$
 $M'N': 5^2 + 2^2 = M'N'^2$
 $\boxed{\sqrt{29} = M'N'}$
 $\boxed{L'N' = 5}$ counted

Use the given information to identify the congruent triangles. Describe what congruence shortcut you used and what angles or sides you know are congruent.

3.

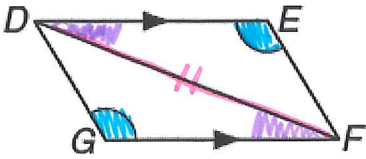


a. Short cut congruence used SAS

b. Name the 3 congruent corresponding parts:

$\Delta DFE \cong \Delta JHG$
 S: $FE \cong HG$ Given
 A: $\angle F \cong \angle H$ Given
 S: $DF \cong JH$ Given

4.



$\triangle GFD \cong \triangle EDF$

a. Short cut congruence used _____

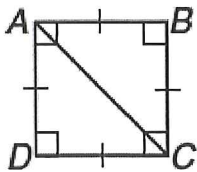
b. Name the 3 congruent corresponding parts:

A: $\angle E \cong \angle G$ Given

A: $\angle EDF \cong \angle GFD$ // lines form \cong alt. int. \angle s

S: $DF \cong DF$ Reflexive.

5.



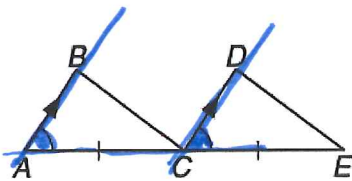
Multiple answers
SAS, SSS
HL, ASA
AAS

a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts:

$\triangle ABC \cong \triangle CDA$

6.



a. Short cut congruence used _____

b. Name the 3 congruent corresponding parts

Not enough info