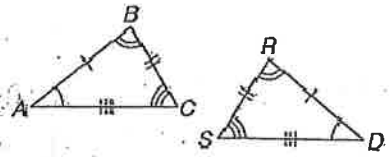
Introduction to Congruent Triangles Homework | 2011

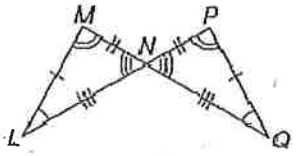
Identify the congruent triangles in each figure.

1.



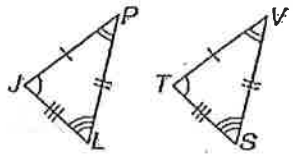
$\triangle ABC \cong \triangle DRS$

2.



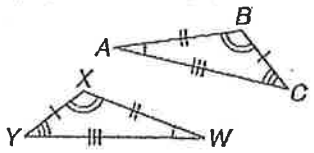
$\triangle LMN \cong \triangle QPN$

1.



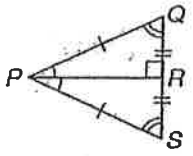
$\triangle LJP \cong \triangle STV$

2.



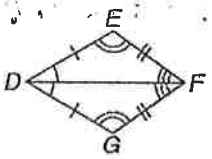
$\triangle ABC \cong \triangle WXY$

3.



$\triangle PQR \cong \triangle PSR$

4.



$\triangle DEF \cong \triangle DGF$

Name the congruent angles and sides for each pair of congruent triangles.

5. $\triangle ABC \cong \triangle FGH$

$\angle A \cong \angle F$ $\quad \overline{AB} \cong \overline{FG}$

$\angle B \cong \angle G$ $\quad \overline{BC} \cong \overline{GH}$

$\angle C \cong \angle H$ $\quad \overline{AC} \cong \overline{FH}$

6. $\triangle PQR \cong \triangle STU$

$\angle P \cong \angle S$ $\quad \overline{PQ} \cong \overline{ST}$

$\angle Q \cong \angle T$ $\quad \overline{QR} \cong \overline{TU}$

$\angle R \cong \angle U$ $\quad \overline{PR} \cong \overline{SU}$

3. $\triangle GKP \cong \triangle LMN$

$\angle G \cong \angle L$, $\angle K \cong \angle M$, $\angle P \cong \angle N$

$\overline{GK} \cong \overline{LM}$, $\overline{KP} \cong \overline{MN}$, $\overline{GP} \cong \overline{LN}$

4. $\triangle ANC \cong \triangle RBV$

$\angle A \cong \angle R$ $\quad \overline{AN} \cong \overline{RB}$

$\angle N \cong \angle B$ $\quad \overline{NC} \cong \overline{BV}$

$\angle C \cong \angle V$ $\quad \overline{AC} \cong \overline{RV}$

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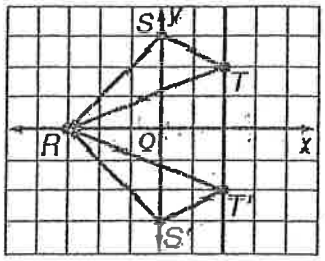
Determine whether each transformation is a reflection, rotation, or translation. Then, identify the congruent triangles in each figure.

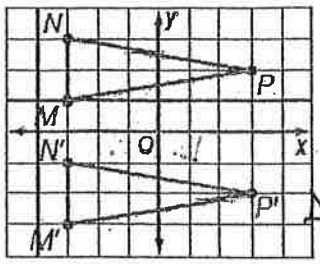
1.



Reflect across x axis

$\triangle RST \cong \triangle RS'T'$

2.

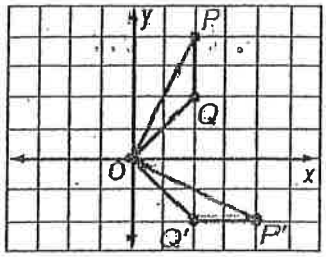


$(x, y-4)$

Translation

$\triangle MNP \cong \triangle M'N'P'$

3.

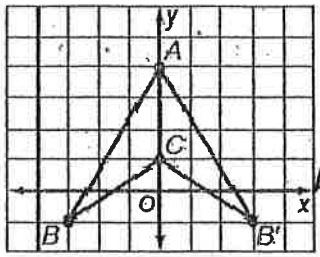


Rotate 90°

$\triangle OPQ \cong \triangle OP'Q'$

$(x, y) \rightarrow (y, -x)$

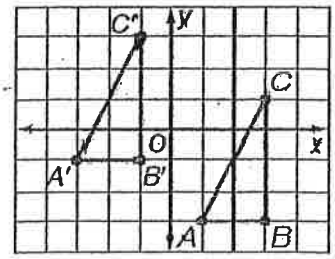
4.



Reflect over y-axis

$\triangle ABC \cong \triangle A\bar{B}'C$

5.

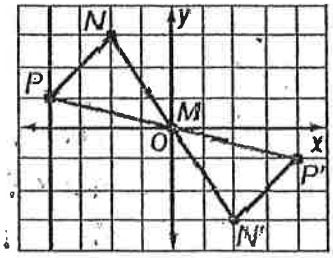


Translate

$(x-4, y+2)$

$\triangle ABC \cong \triangle A'B'C'$

6.



Rotate 180°

$\triangle OPN \cong \triangle OP'N'$