

4-1

Practice

Form G

Congruent Figures

Each pair of polygons is congruent. Find the measures of the numbered angles.

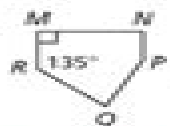
1.



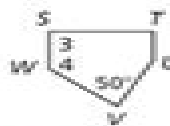
$$m\angle 1 = 110; m\angle 2 = 120$$



2.



$$m\angle 3 = 90; m\angle 4 = 135$$



3.



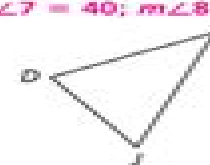
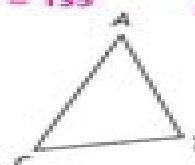
$$m\angle 5 = 140; m\angle 6 = 90; m\angle 7 = 40; m\angle 8 = 90$$

$\triangle CAT \cong \triangle JSD$. List each of the following.

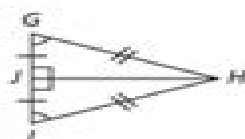
4. three pairs of congruent sides
 $CA \cong JS, AT \cong SD, CT \cong JD$
5. three pairs of congruent angles
 $\angle C \cong \angle J, \angle A \cong \angle S, \angle T \cong \angle D$

$WXYZ \cong JKLM$. List each of the following.

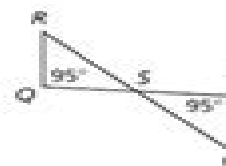
6. four pairs of congruent sides
 $WZ \cong JM, WX \cong JK, XY \cong KL, YZ \cong ML$
7. four pairs of congruent angles
 $\angle W \cong \angle J, \angle X \cong \angle K, \angle Y \cong \angle L, \angle Z \cong \angle M$



For Exercises 8 and 9, can you conclude that the triangles are congruent? Justify your answers.

8. $\triangle GHJ$ and $\triangle IHJ$


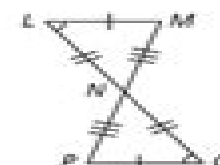
Yes; $\angle GHJ \cong \angle IHJ$ by Third Angles Thm. and by the Refl. Prop. $JH \cong JH$. Therefore, $\triangle GHJ \cong \triangle IHJ$ by the Def. of $\cong$ triangles.

9. $\triangle QRS$ and $\triangle TVS$


No; $\angle QSR \cong \angle TSV$ because vert. angles are congruent, and $\angle QRS \cong \angle TVS$ by Third Angles Thm., but none of the sides are necessarily congruent.

10. **Developing Proof** Use the information given in the diagram. Give a reason that each statement is true.

- a. $\angle L \cong \angle Q$ Given
- b. $\angle LNM \cong \angle QNP$ Vert. angles are $\cong$.
- c. $\angle M \cong \angle P$ Third Angles Thm.
- d. $\overline{LM} \cong \overline{QP}, \overline{LN} \cong \overline{QN}, \overline{MN} \cong \overline{PN}$ Given
- e. $\triangle LNM \cong \triangle QNP$ Def. of $\cong$ triangles



Practice 4 1 Congruent Figures Form G Answer Key

Mary Lee Vivian



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v_1 is the supply voltage per phase when the full voltage v_1 per phase is applied to the direct switching the starting current drawn from the supply is given by the equation shown below with auto transformer starting if tapping of the transformer ratio x is used then the voltage per phase across the motor is xv_1

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apr 22 2021 2 1 structure of auto transformer and magnetic control soft start device in this paper a new type of auto transformer and magnetic control soft start device for super large capacity and high voltage motor with single phase six columns body structure is presented the structure of the device is shown in fig 1 by using the ingenious circuit and magnetic

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diagram is a set of instructions used to show how to connect the various parts of an electric motor or other power source this diagram provides all the information needed to install maintain and troubleshoot the motor