

4-1

Practice

Form G

Congruent Figures

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

1.



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



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

4. three pairs of congruent sides

$$\overline{CA} \cong \overline{JS}, \overline{AT} \cong \overline{SD}, \overline{CT} \cong \overline{JD}$$

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.

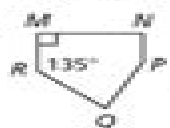
6. four pairs of congruent sides

$$\overline{WZ} \cong \overline{JM}, \overline{WX} \cong \overline{JK}, \overline{XY} \cong \overline{KL}, \overline{ZY} \cong \overline{ML}$$

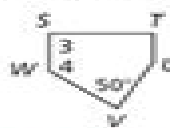
7. four pairs of congruent angles

$$\angle W \cong \angle J, \angle X \cong \angle K, \angle Y \cong \angle L, \angle Z \cong \angle M$$

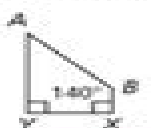
2.



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



3.

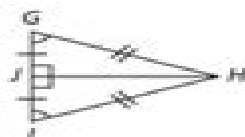


$$m\angle 5 = 140; m\angle 6 = 90; m\angle 7 = 40; m\angle 8 = 90$$



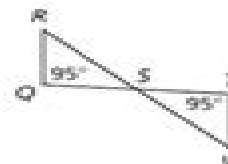
For Exercises 8 and 9, can you conclude that the triangles are congruent? Justify your answers.

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



Yes; $\angle GHJ \cong \angle IHJ$ by Third Angles Thm. and by the Refl. Prop. $\overline{JH} \cong \overline{JH}$. 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.

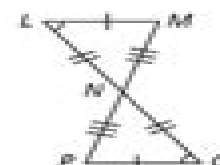
a. $\angle L \cong \angle Q$ **Given**

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**



4 Practice Congruent Figures

Teacher Created Resources



4 Practice Congruent Figures:

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M. Burton, 1999 *Maths: A Student's Survival Guide* Jenny Olive, 2003-09-18 This friendly self help workbook covers mathematics essential to first year undergraduate scientists and engineers In the second edition of this highly successful textbook the author has completely revised the existing text and added a totally new chapter on vectors Mathematics underpins all science and engineering degrees and this may cause problems for students whose understanding of the subject is weak In this book Jenny Olive uses her extensive experience of teaching and helping students by giving a clear and confident presentation of the core mathematics needed by students starting science or engineering courses The book contains almost 800 exercises with detailed solutions given in the back to allow students who get stuck to see exactly where they have gone wrong Topics covered include trigonometry and hyperbolic functions sequences and series with detailed coverage of binomial series differentiation and integration complex numbers and vectors

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