

## Practice A

### 5.3 Congruent Triangles

Fill in the blanks to complete each definition.

- Corresponding angles and corresponding sides are in the same position in polygons with an equal number of sides.
- Two polygons are congruent polygons if and only if their corresponding angles and sides are congruent.

Refer to the figure of  $\triangle GHJ$  and  $\triangle KJL$  for Exercises 3 and 4.

$$\overline{GH} \cong \overline{JK}, \overline{HJ} \cong \overline{KL}, \overline{GJ} \cong \overline{JL}$$

3. Name the three pairs of corresponding angles.

$$\angle G \cong \angle K, \angle H \cong \angle L, \angle J \cong \angle J$$

4. Find the value of  $x$ .



5. Given:  $\triangle GHJ \cong \triangle KJL$ ,  $x = 25$

6. Given:  $\triangle GHJ \cong \triangle KJL$ ,  $x = 25$

7. Explain how a kite, when the kite is flying well, the tail sticks out straight as the indicated angles at  $V$  are congruent. Use the process from the word bank to complete this two-column proof.

$$\text{Given: } \angle 1 \text{ and } \angle 2 \text{ are right angles. } \angle 3 \cong \angle 4, \angle 5 \cong \angle 6, \angle 7 \cong \angle 8$$

$$\text{Prove: } \angle 3 \cong \angle 4, \angle 5 \cong \angle 6, \angle 7 \cong \angle 8$$



$$\begin{array}{l} \angle 1 \cong \angle 2 \\ \text{Proof: } \angle 1 \cong \angle 2 \\ \text{Given: } \angle 3 \cong \angle 4 \end{array}$$

| Statements                    | Reasons                     |
|-------------------------------|-----------------------------|
| 1. $\angle 1 \cong \angle 2$  | 1. Given                    |
| 2. $\angle 3 \cong \angle 4$  | 2. Reflex Prop. of $\cong$  |
| 3. $\angle 5 \cong \angle 6$  | 3. Given                    |
| 4. $\angle 7 \cong \angle 8$  | 4. Reflex Prop. of $\cong$  |
| 5. $\angle 3 \cong \angle 4$  | 5. Given                    |
| 6. $\angle 5 \cong \angle 6$  | 6. Reflex Prop. of $\cong$  |
| 7. $\angle 7 \cong \angle 8$  | 7. Reflex Prop. of $\cong$  |
| 8. $\angle 3 \cong \angle 4$  | 8. Reflex Prop. of $\cong$  |
| 9. $\angle 5 \cong \angle 6$  | 9. Reflex Prop. of $\cong$  |
| 10. $\angle 7 \cong \angle 8$ | 10. Reflex Prop. of $\cong$ |

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## Practice C

### 5.3 Congruent Triangles

Mr. X is an inventive person. He takes pleasure in drawing a triangle and seeing if another person can recreate his drawing from geometric information. For each example, draw a diagram to support your answer. (Note: Begin each exercise by drawing a triangle. Measure the parts of your triangle that Mr. X gives you and try to draw a different triangle with those parts. If the two triangles are congruent, you drew Mr. X's triangle.)

1. If Mr. X gives you the measures of the sides of a triangle, could you be sure you would draw Mr. X's triangle?

Yes, possible answer:



2. If Mr. X gives you the measures of the angles of a triangle, could you be sure you would draw Mr. X's triangle?

No, possible answer:



3. If Mr. X gives you the measures of one angle and of both sides of that angle, could you be sure you would draw Mr. X's triangle?

Yes, possible answer:



4. If Mr. X gives you the measures of one side and both angles that share that side, could you be sure you would draw Mr. X's triangle?

Yes, possible answer:



5. If Mr. X gives you the measures of one angle, one adjacent side, and the side opposite the angle, could you be sure you would draw Mr. X's triangle? (Hint: Start with an angle less than 90° and a long adjacent side.)

No, possible answer:



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## Practice B

### 5.3 Congruent Triangles

In baseball, home plate is a pentagon. Pentagon  $ABODE$  is a diagram of a regulation home plate. The baseball rules are very specific about the exact dimensions of this pentagon so that every home plate is congruent to every other home plate. If pentagon  $FGHIJ$  is another home plate, identify each congruent corresponding part.



- $\angle A \cong \angle F$
- $\angle B \cong \angle G$
- $\angle O \cong \angle H$
- $\angle D \cong \angle I$
- $\angle E \cong \angle J$
- $\overline{AB} \cong \overline{FG}$
- $\overline{BO} \cong \overline{GH}$
- $\overline{OE} \cong \overline{HI}$
- $\overline{ED} \cong \overline{IJ}$
- $\overline{DA} \cong \overline{JA}$

Given:  $\triangle DEF \cong \triangle GHI$ . Find each value.



- $m\angle D = 40^\circ$
- $m\angle E = 60^\circ$
- $m\angle F = 80^\circ$
- $DE = 10$
- $EF = 12$
- $DF = 14$

Prove:  $\triangle DEF \cong \triangle GHI$



| Statements                             | Reasons                   |
|----------------------------------------|---------------------------|
| 1. $\angle D \cong \angle G$           | 1. Given                  |
| 2. $\angle E \cong \angle H$           | 2. Third $\angle$ Theorem |
| 3. $DE \cong GH$                       | 3. Given                  |
| 4. $EF \cong HI$                       | 4. Given                  |
| 5. $DF \cong GI$                       | 5. Def. of $\cong$ segs.  |
| 6. $\triangle DEF \cong \triangle GHI$ | 6. SAS                    |

10. Given:  $\triangle ABC \cong \triangle DEF$ ,  $m\angle A = 40^\circ$ ,  $m\angle B = 60^\circ$ ,  $m\angle C = 80^\circ$ . Find  $m\angle D$ .

$$m\angle D = 40^\circ$$

11. Given:  $\triangle ABC \cong \triangle DEF$ ,  $m\angle A = 40^\circ$ ,  $m\angle B = 60^\circ$ ,  $m\angle C = 80^\circ$ . Find  $m\angle D$ .

$$m\angle D = 40^\circ$$

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## Review

### 5.3 Congruent Triangles

Triangles are congruent if they have the same size and shape. Their corresponding parts, the angles and sides that are in the same position, are congruent.



| Congruent Angles          | Congruent Sides                     |
|---------------------------|-------------------------------------|
| $\angle A \cong \angle D$ | $\overline{AB} \cong \overline{DE}$ |
| $\angle B \cong \angle E$ | $\overline{BC} \cong \overline{EF}$ |
| $\angle C \cong \angle F$ | $\overline{AC} \cong \overline{DF}$ |

To identify corresponding parts of congruent triangles, look at the order of the vertices in the congruence statement such as  $\triangle ABC \cong \triangle DEF$ .

Given:  $\triangle ABC \cong \triangle DEF$ . Identify the congruent corresponding parts.



- $\angle A \cong \angle D$
- $\angle B \cong \angle E$
- $\angle C \cong \angle F$
- $\overline{AB} \cong \overline{DE}$
- $\overline{BC} \cong \overline{EF}$
- $\overline{AC} \cong \overline{DF}$

Given:  $\triangle ABC \cong \triangle DEF$ . Find each value below.



- $m\angle A = 30^\circ$
- $m\angle B = 60^\circ$
- $m\angle C = 90^\circ$
- $AB = 3$
- $BC = 4$
- $AC = 5$

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**JR Anderson**



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