

## 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.

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

4. Find the value of  $x$ .



$$x = 10$$

$$x = 12$$

5. 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 phrases from the word bank to complete this two-column proof.

$$\text{Given: } \angle J \text{ and } \angle K \text{ are right angles. } \angle JVT \cong \angle KVT, \overline{JV} \cong \overline{VT}, \overline{JT} \cong \overline{KT}$$

$$\text{Prove: } \angle JTV \cong \angle KTV$$

| Statements                                     | Reasons                     |
|--|-----------------------------|
| 1. $\angle J \cong \angle K$                   | 1. Given                    |
| 2. $\angle JVT \cong \angle KVT$               | 2. Reflex Prop. of $\angle$ |
| 3. $\angle J$ and $\angle K$ are right angles. | 3. Given                    |
| 4. $\angle JVT \cong \angle KVT$               | 4. Subst. Prop. of $\angle$ |
| 5. $\angle JTV \cong \angle KTV$               | 5. Given                    |
| 6. $\angle JTV \cong \angle KTV$               | 6. Subst. Prop. of $\angle$ |
| 7. $\angle JTV \cong \angle KTV$               | 7. Subst. Prop. of $\angle$ |
| 8. $\angle JTV \cong \angle KTV$               | 8. Subst. Prop. of $\angle$ |

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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.)

- 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:



- 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:



- 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:



- 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:



- 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.

- $\angle A \cong \angle F$
- $\angle B \cong \angle G$
- $\angle D \cong \angle J$
- $\angle E \cong \angle I$
- $\overline{AO} \cong \overline{FO}$
- $\overline{BO} \cong \overline{GO}$
- $\overline{DO} \cong \overline{JO}$
- $\overline{EO} \cong \overline{IO}$

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

$$1. m\angle D = 40^\circ$$

$$2. DF = 17.5$$

$$3. DE = 12$$

$$4. EF = 10$$

$$5. GF = 10$$

$$6. HI = 10$$

$$7. GH = 10$$

$$8. GI = 10$$

$$9. DI = 10$$

$$10. EI = 10$$

$$11. FI = 10$$

$$12. HI = 10$$

$$13. GI = 10$$

$$14. DI = 10$$

$$15. EI = 10$$

$$16. FI = 10$$

$$17. HI = 10$$

$$18. GI = 10$$

$$19. DI = 10$$

$$20. EI = 10$$

$$21. FI = 10$$

$$22. HI = 10$$

$$23. GI = 10$$

$$24. DI = 10$$

$$25. EI = 10$$

$$26. FI = 10$$

$$27. HI = 10$$

$$28. GI = 10$$

$$29. DI = 10$$

$$30. EI = 10$$

$$31. FI = 10$$

$$32. HI = 10$$

$$33. GI = 10$$

$$34. DI = 10$$

$$35. EI = 10$$

$$36. FI = 10$$

$$37. HI = 10$$

$$38. GI = 10$$

$$39. DI = 10$$

$$40. EI = 10$$

$$41. FI = 10$$

$$42. HI = 10$$

$$43. GI = 10$$

$$44. DI = 10$$

$$45. EI = 10$$

$$46. FI = 10$$

$$47. HI = 10$$

$$48. GI = 10$$

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$$62. HI = 10$$

$$63. GI = 10$$

$$64. DI = 10$$

$$65. EI = 10$$

$$66. FI = 10$$

$$67. HI = 10$$

$$68. GI = 10$$

$$69. DI = 10$$

$$70. EI = 10$$

$$71. FI = 10$$

$$72. HI = 10$$

$$73. GI = 10$$

$$74. DI = 10$$

$$75. EI = 10$$

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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.



| Corresponding Parts       |                                     |
|---------------------------|-------------------------------------|
| 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:  $\triangle XYZ \cong \triangle MPO$ . Identify the congruent corresponding parts.

- $\angle X \cong \angle M$
- $\angle Y \cong \angle P$
- $\angle Z \cong \angle O$
- $\overline{XY} \cong \overline{MP}$
- $\overline{YZ} \cong \overline{PO}$
- $\overline{XZ} \cong \overline{MO}$
- $\overline{XP} \cong \overline{YM}$
- $\overline{YO} \cong \overline{PM}$
- $\overline{ZO} \cong \overline{OM}$
- $\overline{XP} \cong \overline{YM}$
- $\overline{YO} \cong \overline{PM}$
- $\overline{ZO} \cong \overline{OM}$

Given:  $\triangle PQR \cong \triangle STU$ . Find each value below.

- $m\angle P = 110^\circ$
- $m\angle Q = 110^\circ$
- $m\angle R = 110^\circ$
- $m\angle S = 110^\circ$
- $m\angle T = 110^\circ$
- $m\angle U = 110^\circ$
- $m\angle P = 110^\circ$
- $m\angle Q = 110^\circ$
- $m\angle R = 110^\circ$
- $m\angle S = 110^\circ$
- $m\angle T = 110^\circ$
- $m\angle U = 110^\circ$

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# Novelstars Geometry Answer Key

**Robert J. McMurray, John W. Jurgensen**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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