

7-6: Congruence Notes

Definition:	Picture/Characteristics:
Examples:	Non-Examples:

CONGRUENT TRIANGLES			
Diagram	Statement	Corresponding Angles	Corresponding Sides
	$\triangle ABC \cong \triangle DEF$	$\angle A \cong \angle D$ $\angle B \cong \angle E$ $\angle C \cong \angle F$	$\overline{AB} \cong \overline{DE}$ $\overline{BC} \cong \overline{EF}$ $\overline{AC} \cong \overline{DF}$

Example 1: Writing Congruence Statements

Write a congruence statement for each pair of congruent polygons.

a.

b.

c.

Example 2: Using Congruence Relationships to Find Unknown Values

a.

In the figure, quadrilateral $VWXY \cong$ quadrilateral $JKLM$.
 Find a. Find b. Find c.

b.

In the figure, quadrilateral $HIKJ \cong$ quadrilateral $QRST$.
 Find a. Find b. Find c.