Figures that are the same shape are congruent or similar.

Two figures with the same angle measures and same side lengths are congruent.

Two figures with the same angle measures and different side lengths are similar.



$$\overline{XY} \cong \overline{TU}$$

$$\angle Y \cong \angle U$$
 $\overline{XZ} \cong \overline{TV}$ $\angle Z \cong \angle V$ $\overline{YZ} \cong \overline{UV}$ $\triangle XYZ$ and $\triangle TUV$ are congruent.

 $\angle B \cong \angle J$ $\angle C \cong \angle K$ $\angle D \cong \angle L$ The corresponding line segments are not congruent. $\triangle BCD$ and $\triangle JKL$ are similar.

 $\angle X \cong \angle T$

Tell whether the figures in each pair are congruent or not. If they are, for each angle and side write the corresponding congruent part.

1.











Congruent shapes? _____

$$\angle A \cong \angle D$$

$$\angle A \cong \angle D \qquad \overline{AB} \cong \overline{DE}$$

$$\angle C \cong$$

$$\angle C \cong \underline{\qquad} \overline{AC} \cong \underline{\qquad}$$



Congruent shapes? _____

$$\angle D \cong$$

$$\overline{DE} \cong \underline{\hspace{1cm}}$$

$$\angle F \cong \underline{\qquad} \overline{FG} \cong \underline{\qquad}$$

$$/G \cong$$

$$\overline{DG} \cong$$

Find the measure of the missing angle in each pair of similar figures.





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