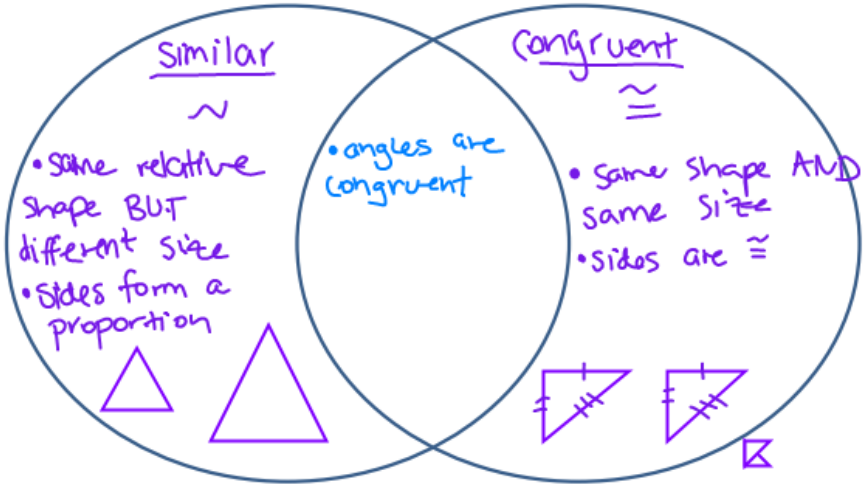
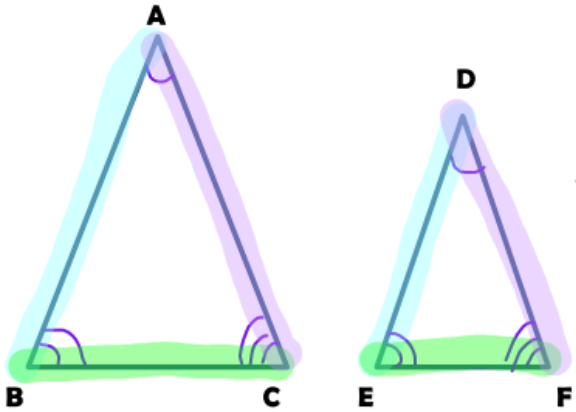
Similar vs. Congruent (6-4)



Example 1. Identify the corresponding parts of the similar triangles.



$\angle A \cong \angle D$

$\angle B \cong \angle E$

$\angle C \cong \angle F$

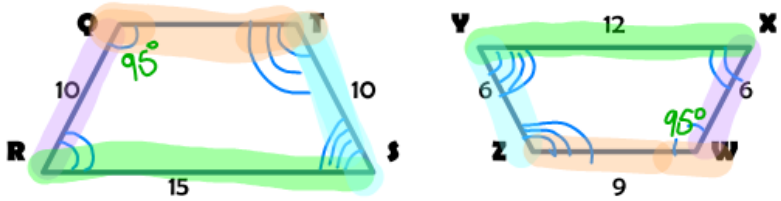
$\overline{AB}$ and $\overline{DE}$

$\overline{BC}$ and $\overline{EF}$

$\overline{CA}$ and $\overline{FD}$

Example 2: Use the figures to answer the following questions.

Quadrilateral QRST ~ WXYZ



I Do	We Do
If <W is 95°, what is the size of <Q? m∠Q = 95°	What is the ratio of the sides? $\frac{QR}{WX}$ $\frac{10}{6} \div 2 = \frac{5}{3}$

You Do

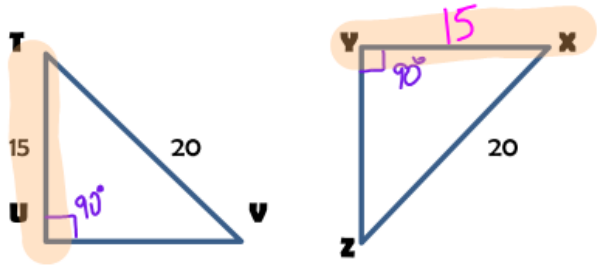
List the corresponding sides and angles.

$\angle Q \cong \angle W$
$\angle R \cong \angle X$
$\angle T \cong \angle Z$
$\angle S \cong \angle Y$

$\overline{QR}$ and $\overline{WX}$
$\overline{RS}$ and $\overline{XY}$
$\overline{ST}$ and $\overline{YZ}$
$\overline{TQ}$ and $\overline{ZW}$

Example 3: Use the figures to answer the following questions.

Triangle $\overline{TUV} \cong \overline{XYZ}$



I Do	We Do
If <U is 90°, what is the size of <Y? $m\angle Y = 90^\circ$	What is the length of side YX? $YX = 15$

You Do

List the corresponding sides and angles.

$\angle T \cong \angle X$

$\angle U \cong \angle Y$

$\angle V \cong \angle Z$

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

$\overline{UV} \cong \overline{YZ}$

$\overline{VT} \cong \overline{ZX}$