

SOL 6.12 – Congruency

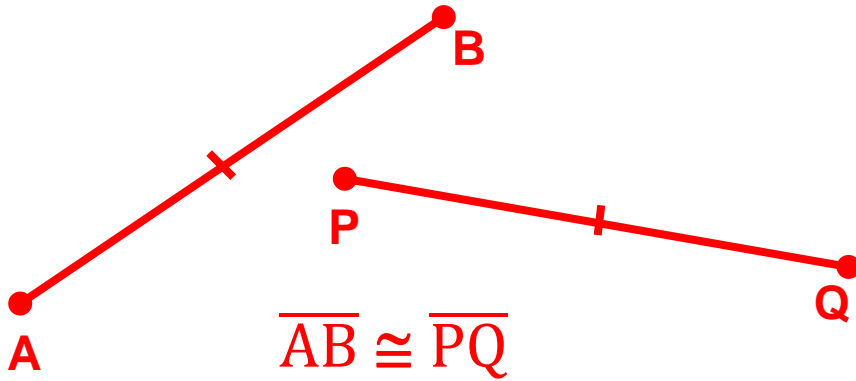
6.12 The student will determine congruence of segments, angles, and polygons.

Understanding the Standard:

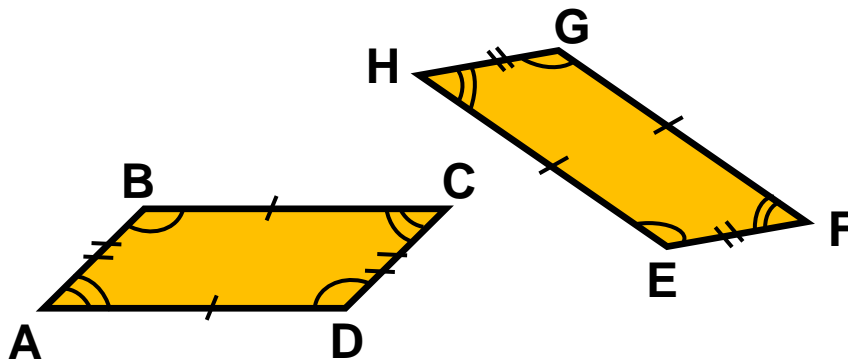
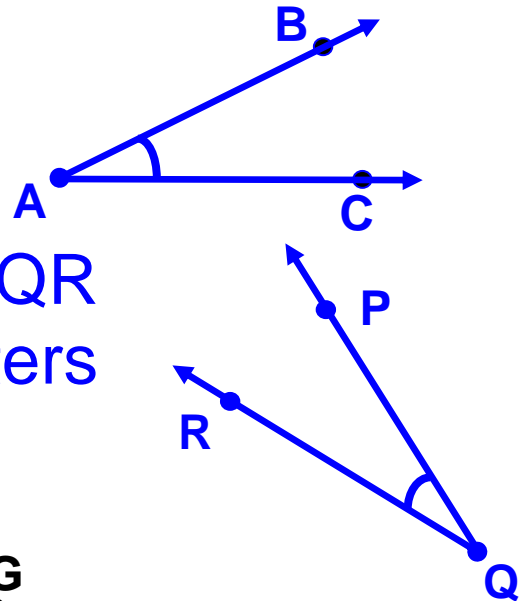
- Congruent figures have exactly the same size and the same shape.
- Non-congruent figures may have the same shape but not the same size.
- The symbol for congruency is \cong .
- The corresponding angles of congruent polygons have the same measure, and the corresponding sides of congruent polygons have the same measure.
- The determination of the congruence or non-congruence of two figures can be accomplished by placing one figure on top of the other or by comparing the measurements of all sides and angles.
- Construction of congruent line segments, angles, and polygons helps students understand congruency.

SOL 6.12 – Congruent Figures

- Have exactly the same shape and size.



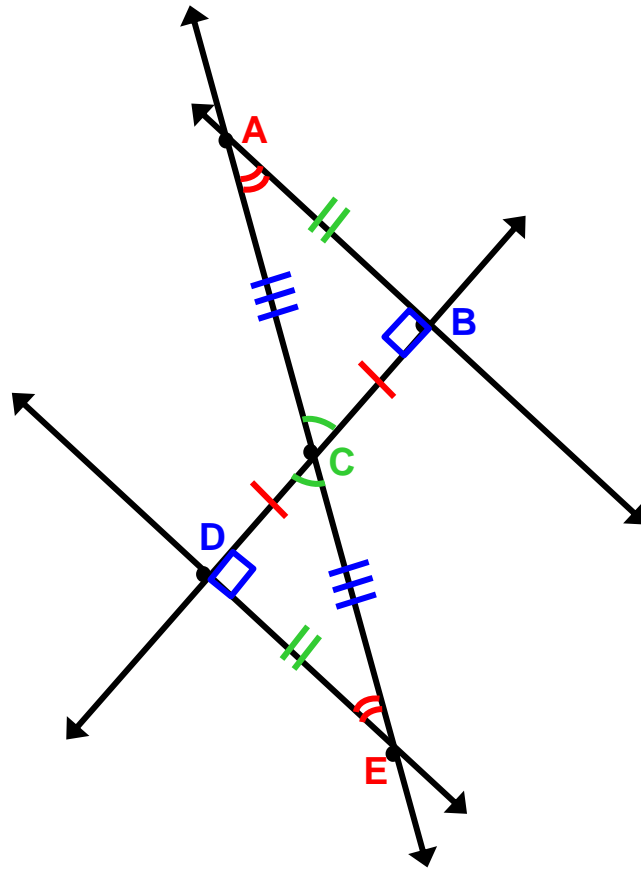
$\angle BAC \cong \angle PQR$
Notice the order matters



$\square ABCD \cong \square HGFE$

Notice the order matters

SOL 6.12 – Corresponding Parts

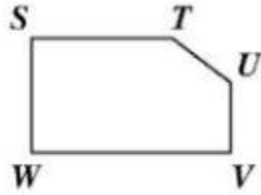


$$ABC \sim EDC$$

Angles	Sides
$\angle CAB$ corresponds to $\angle CED$	\overline{AB} corresponds to \overline{ED}
$\angle ABC$ corresponds to $\angle EDC$	\overline{BC} corresponds to \overline{DC}
$\angle BCA$ corresponds to $\angle DCE$	\overline{CA} corresponds to \overline{CE}

Released SOL Questions:

Figure $STUVW$ is shown.



Which polygon appears congruent to figure $STUVW$?

