

Congruent Triangles

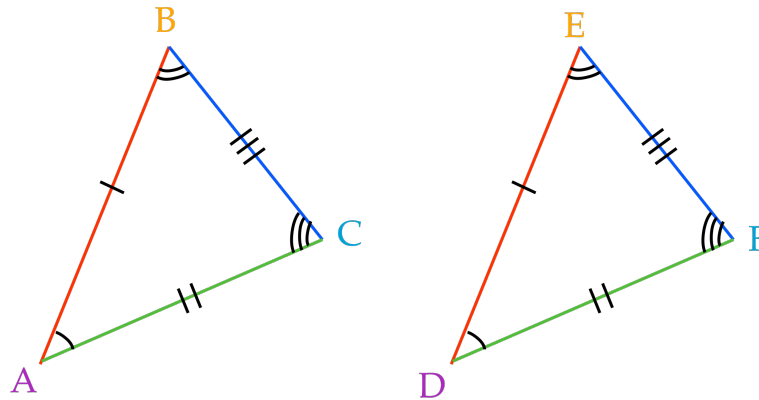
Two triangles are **congruent** if and only if their corresponding angles and sides are congruent.

Corresponding Angles

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

$$\angle B \cong \angle E$$

$$\angle C \cong \angle F$$

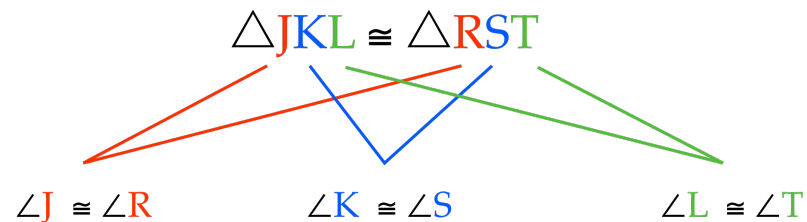
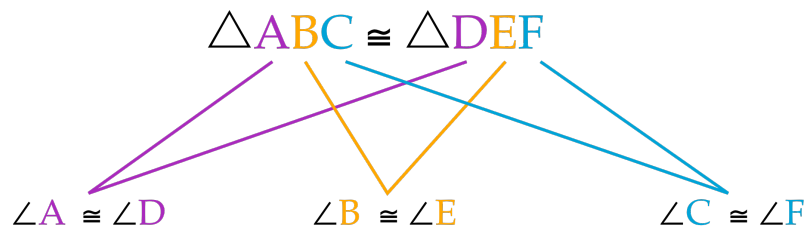


Corresponding Sides

$$\overline{AB} \cong \overline{DE}$$

$$\overline{AC} \cong \overline{DF}$$

$$\overline{BC} \cong \overline{EF}$$



$$\triangle ABC \cong \triangle DEF$$

$$\overline{AB} \cong \overline{DE}$$

$$\overline{BC} \cong \overline{EF}$$

$$\overline{AC} \cong \overline{DF}$$

$$\triangle JKL \cong \triangle RST$$

$$\overline{JK} \cong \overline{RS}$$

$$\overline{KL} \cong \overline{ST}$$

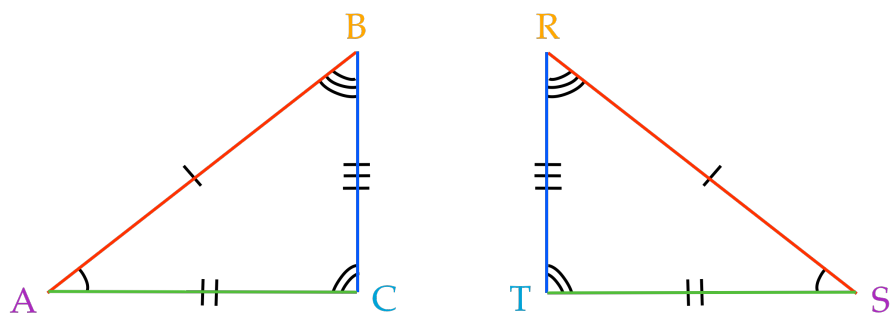
$$\overline{JL} \cong \overline{RT}$$

$$\triangle ABC \cong \triangle SRT$$

$$\angle A \cong \angle S$$

$$\angle B \cong \angle R$$

$$\angle C \cong \angle T$$



$$\overline{AB} \cong \overline{SR}$$

$$\overline{AC} \cong \overline{ST}$$

$$\overline{BC} \cong \overline{RT}$$

Congruent Triangles

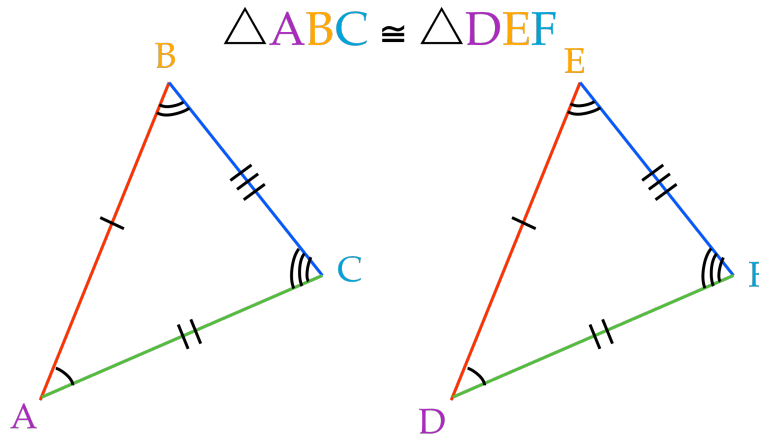
Two triangles are **congruent** if and only if their corresponding angles and sides are congruent.

Corresponding
Angles

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

$$\angle B \cong \angle E$$

$$\angle C \cong \angle F$$



Corresponding
Sides

$$\overline{AB} \cong \overline{DE}$$

$$\overline{AC} \cong \overline{DF}$$

$$\overline{BC} \cong \overline{EF}$$