SIMILAR TRIANGLES

A ANGLE-ANGLE SIMILARITY

Proposition Angle-Angle Similarity

If two angles of one triangle are equal to two angles of another triangle, then the two triangles are similar.
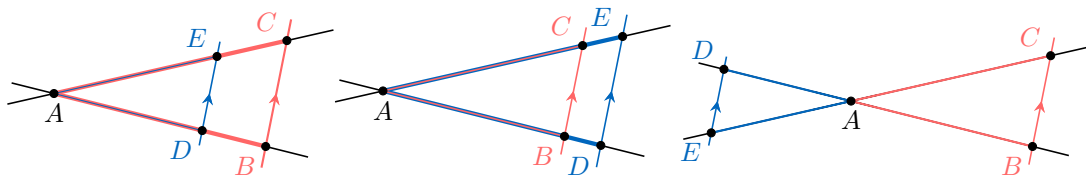
B THALES'S THEOREM

Theorem Thales's Theorem

Let $\triangle ABC$ be a triangle, with a point D on the line $\overleftrightarrow{AB}$ and a point E on the line $\overleftrightarrow{AC}$.

If the line $\overleftrightarrow{DE}$ is parallel to the line $\overleftrightarrow{BC}$, then the triangles $\triangle ABC$ and $\triangle ADE$ are similar:

$$\frac{AD}{AB} = \frac{AE}{AC} = \frac{DE}{BC}$$

Thales's Configurations: Key Figures

Each red triangle is similar to the blue triangle.