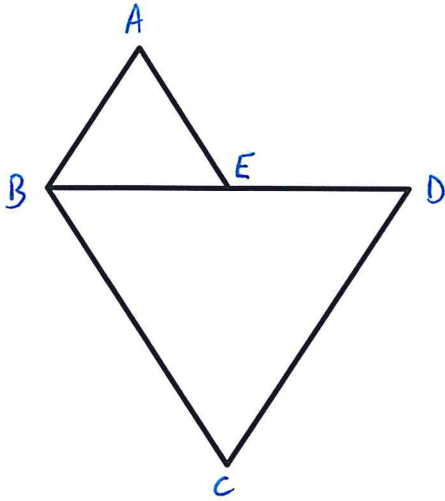


Geometric Proofs
Emphasis on Similarity by Angle – Angle

Prove each of the following using Angle – Angle:

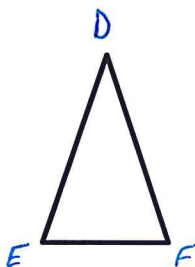
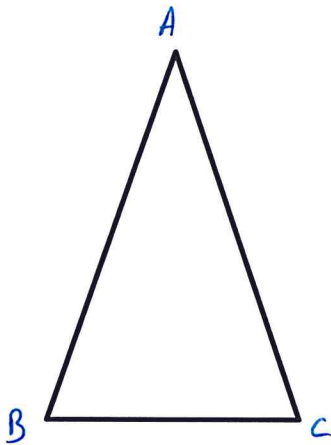
1. Given: $\overline{AB} \parallel \overline{CD}$
 $\overline{AE} \parallel \overline{CB}$

Prove: $\triangle ABC \sim \triangle DEC$



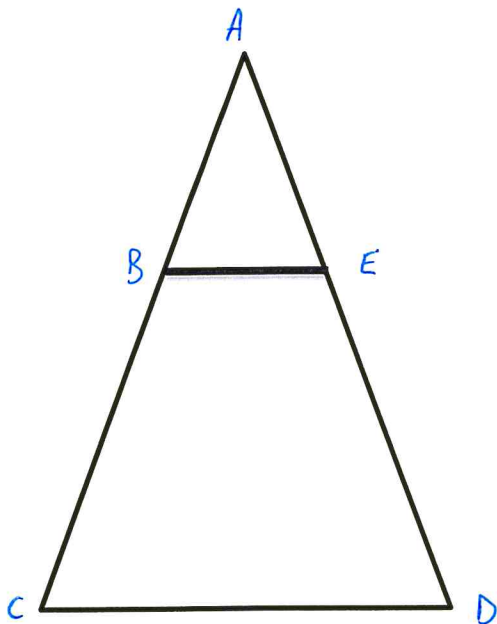
2. Given: $\angle A = 60^\circ$
 $\angle D = 60^\circ$
 $\angle C \cong \angle F$

Prove: $\triangle ACB \sim \triangle DFE$



3. Given: $\overline{BE} \parallel \overline{CD}$

Prove: $\triangle ABE \sim \triangle ACD$



4. Given: $\overline{CE} \perp \overline{AD}$
 $\angle A \cong \angle D$

Prove: $\triangle ABE \sim \triangle DCE$

