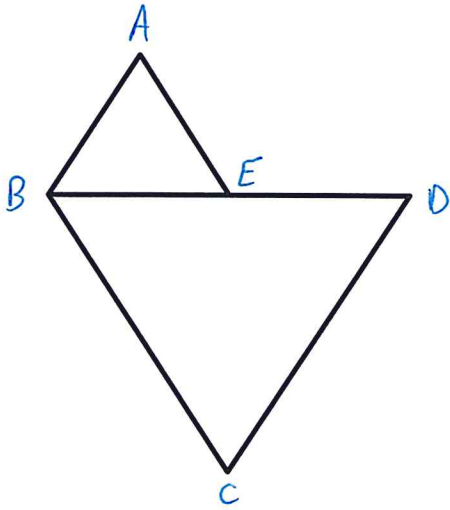


Geometric Proofs
Emphasis on Similarity by Side – Side - Side

Prove each of the following using Side –Side - Side:

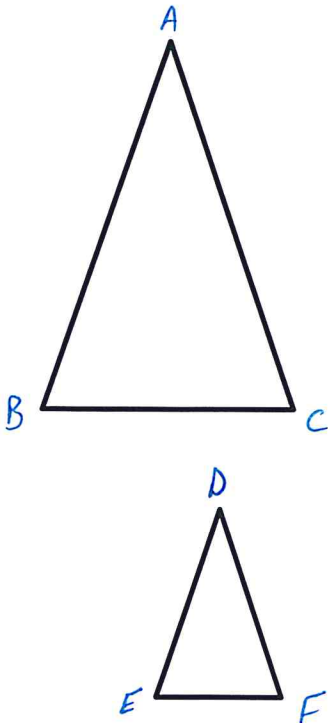
1. **Given:** $AB = 4$, $BE = 6$, $AE = 4$
 $CB = 8$, $ED = 6$, $CD = 8$

Prove: $\triangle ABE \sim \triangle CBD$



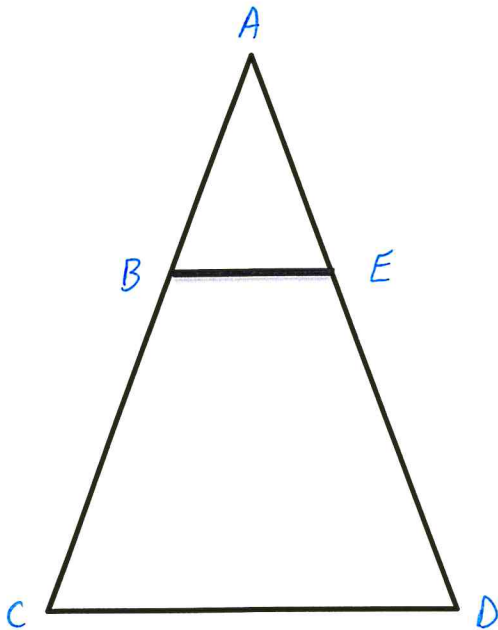
2. **Given:** $BC = 5$, $AC = 15$, $AB = 15$
 $FE = 2$, $DF = 6$, $DE = 6$

Prove: $\triangle DEF \sim \triangle ABC$



3. **Given:** $AB = 3, AE = 3, BE = 3$
 $BC = 6, ED = 6, CD = 9$

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



4. **Given:** $\overline{CE} \perp \overline{AD}$
 $AE = 3, AB = 5$
 $DE = 12, CB = 12$
Prove: $\triangle CDE \sim \triangle BAE$

