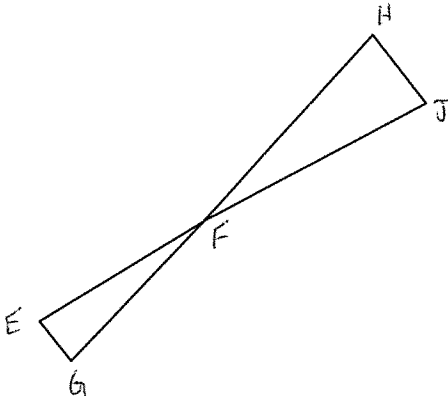


Proving Triangle Similarity - AA
Unit 4: Similarities

Prove each of the following using an emphasis on the Angle-Angle Similarity Postulate:

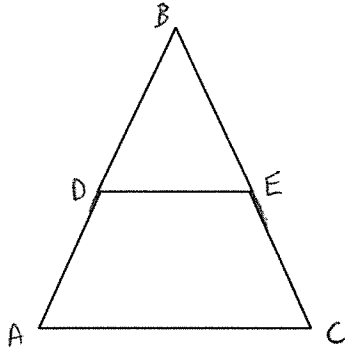
1. Given: $\overline{EG} \parallel \overline{HJ}$

Prove: $\triangle FEG \sim \triangle FJH$



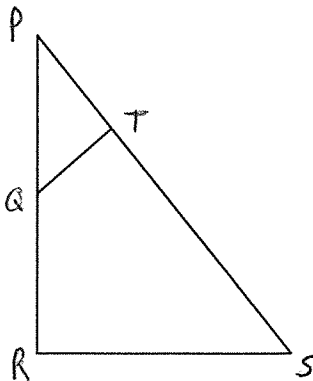
2. Given: $\overline{DE} \parallel \overline{AC}$

Prove: $\triangle ABC \sim \triangle DBE$



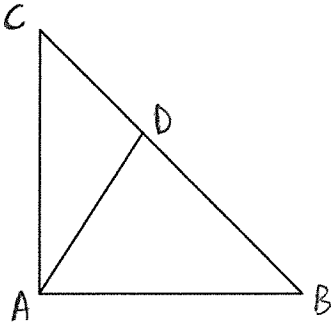
3. Given: $\angle P = 50^\circ$
 $\angle PQT = 45^\circ$
 $\angle R = 85^\circ$

Prove: $\triangle PTQ \sim \triangle PRS$



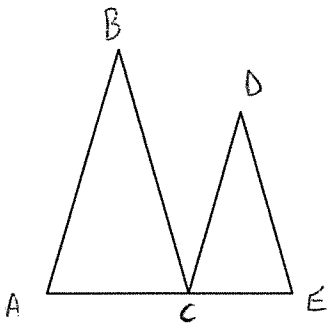
4. Given: $\overline{CA} \perp \overline{AB}$
 $\overline{AD} \perp \overline{BC}$

Prove: $\triangle ABC \sim \triangle DAC$



5. Given: $\overline{AB} \parallel \overline{CD}$
 $\overline{BC} \parallel \overline{DE}$

Prove: $\triangle ABC \sim \triangle CDE$



6. Given: $\overline{AC} \parallel \overline{GE}$
 $\overline{BG} \parallel \overline{CF}$

Prove: $\triangle ABH \sim \triangle EFD$

