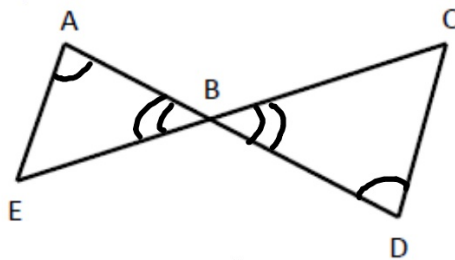


Q. 16 Triangle Proofs

Given: $\angle A \cong \angle D$

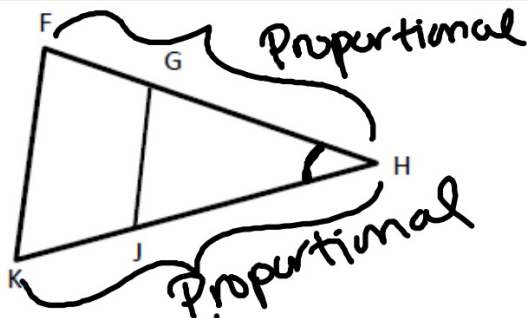
Prove: $\triangle ABE \sim \triangle DBC$



Statements	Justifications
① $\angle A \cong \angle D$	① Given
② $\angle ABE \cong \angle DBC$	② Vertical
③ $\triangle ABE \sim \triangle DBC$	③ AA~

Given: $\frac{GH}{FH} = \frac{JH}{KH}$

Prove: $\triangle FHK \sim \triangle GHJ$



Statements	Justifications
① $\frac{GH}{FH} = \frac{JH}{KH}$	① Given
② $\angle H \cong \angle H$	② Reflexive
③ $\triangle FHK \sim \triangle GHJ$	③ SAS ~