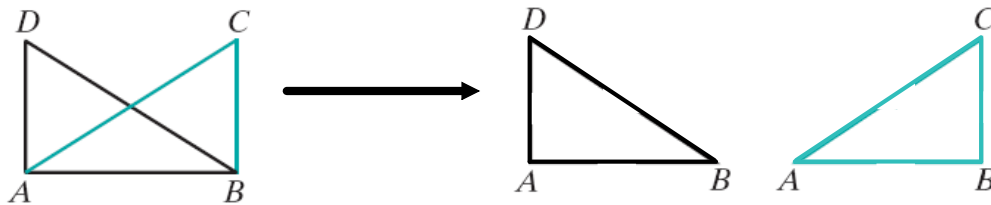
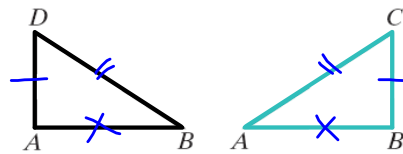
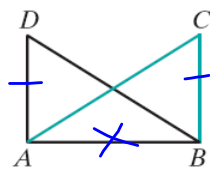


Overlapping Triangles

REDRAW the two overlapping triangles
as TWO SEPARATE triangles!!



Nov 5-10:17 AM



Given: $\overline{AD} \cong \overline{BC}$, $\overline{DB} \cong \overline{CA}$ **Prove:** $\triangle DBA \cong \triangle CAB$

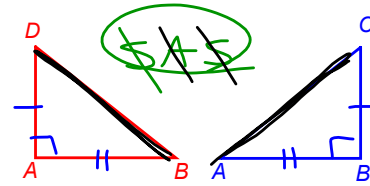
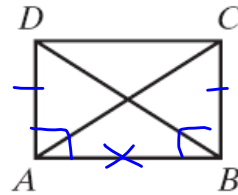
Statements	Reasons
1) $\overline{AD} \cong \overline{BC}$, $\overline{DB} \cong \overline{CA}$	1) Given
2) $\overline{AB} \cong \overline{AB}$	2) Reflexive property
3) $\triangle DBA \cong \triangle CAB$	3) SSS

Nov 5-10:19 AM

Given: $\overline{DA} \cong \overline{CB}$, $\overline{DA} \perp \overline{AB}$, and $\overline{CB} \perp \overline{AB}$

$\triangle DAB \cong \triangle CBA$

Prove: $\overline{AC} \cong \overline{BD}$

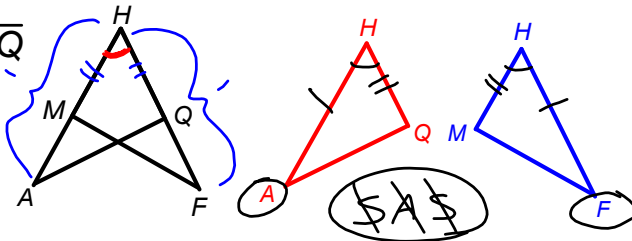


Statements	Reasons
1) $\overline{DA} \cong \overline{CB}$, $\overline{DA} \perp \overline{AB}$ $\overline{CB} \perp \overline{AB}$	1) Given
2) $\angle DAB$ and $\angle CBA$ are right \angle 's	2) \perp lines form right \angle 's
3) $\angle DAB \cong \angle CBA$	3) All right \angle 's are \cong
4) $\overline{AB} \cong \overline{AB}$	4) Reflexive property
5) $\triangle BAD \cong \triangle ABC$	5) SAS
6) $\overline{AC} \cong \overline{BD}$	6) CPCTC

Nov 5-10:30 AM

Given: $\overline{HA} \cong \overline{HF}$, $\overline{HM} \cong \overline{HQ}$

Prove: ~~$\overline{AM} \cong \overline{FM}$~~
 $\angle A \cong \angle F$



Statements	Reasons
1) $\overline{HA} \cong \overline{HF}$, $\overline{HM} \cong \overline{HQ}$	1) Given
2) $\angle H \cong \angle H$	2) Reflexive property
3) $\triangle HMA \cong \triangle HQF$	3) SAS
4) $\angle A \cong \angle F$	4) CPCTC

Nov 8-10:09 AM