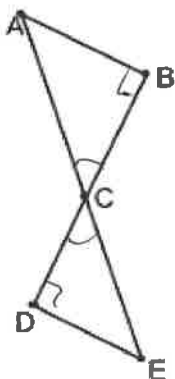
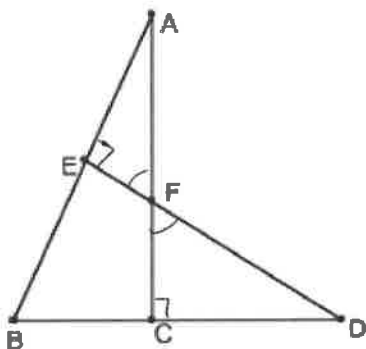


1. **Given:** $\overline{CB} \perp \overline{BA}$, $\overline{CD} \perp \overline{DE}$
Prove: $\triangle ABC \sim \triangle EDC$



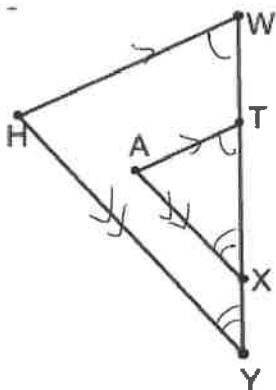
Statements	Reasons
$CB \perp BA$, $CD \perp DE$	Given
$\angle B$ + $\angle D$ are RT \angle s	\perp lines form RT \angle s
$\angle B \cong \angle D$	All RT \angle s are \cong
$\angle ACB \cong \angle ECD$	Vertical \angle s
$\triangle ABC \sim \triangle EDC$	AA Similarity

2. **Given:** $\overline{AC} \perp \overline{BD}$ and $\overline{DE} \perp \overline{AB}$
Prove: $\triangle EFA \sim \triangle CFB$



Statements	Reasons
$AC \perp BD$, $DE \perp AB$	Given
$\angle AEF$ + $\angle DCF$ are RT \angle s	\perp lines form RT \angle s
$\angle AEF \cong \angle DCF$	All RT \angle s are \cong
$\angle AFE \cong \angle CFB$	Vert \angle s
$\triangle EFA \sim \triangle CFB$	AA Similarity

3. **Given:** $\overline{HW} \parallel \overline{TA}$, $\overline{HY} \parallel \overline{AX}$
Prove: $\triangle ATX \sim \triangle HWY$



Statements	Reasons
$HW \parallel TA$, $HY \parallel AX$	Given
$\angle HWT \cong \angle ATX$	\parallel lines, corresponding \angle s are \cong
$\angle HWY \cong \angle AXT$	\parallel lines, corresponding \angle s are \cong
$\triangle ATX \sim \triangle HWY$	AA Similarity