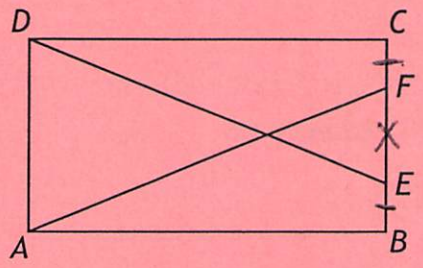
12)

Given: $ABCD$ is a rectangle
$\overline{BE} \cong \overline{CF}$

Prove: $\overline{DE} \cong \overline{AF}$



Statements	Reasons
(1) ABCD is a rectangle $\overline{BE} \cong \overline{CF}$	(1) Given
(2) $\angle C \cong \angle B$	(2) If ABCD is a rectangle then all $\angle$'s are $90°$ and $\cong$
(3) $\overline{DC} \cong \overline{AB}$	(3) If ABCD is a rectangle then opp sides are $\cong$
(4) $\overline{FE} \cong \overline{FE}$	(4) Reflexive Prop
(5) $\overline{FE} + \overline{BE} \cong \overline{FE} + \overline{CF}$	(5) Addition Prop of Equality
(6) $\overline{FB} \cong \overline{EC}$	(6) Segment Addition Postulate
(7) $\triangle AFB \cong \triangle DEC$	(7) SAS
(8) $\overline{DE} \cong \overline{AF}$	(8) CPCTC