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Given  $C \in \overleftrightarrow{AB}$

then,  $B \in \overleftrightarrow{AC}$  by Th 7

So,  $\overleftrightarrow{AC} \subseteq \overleftrightarrow{AB}$  by Th 6

and  $\overleftrightarrow{AB} \subseteq \overleftrightarrow{AC}$  by Th 6

$\therefore \overleftrightarrow{AB} = \overleftrightarrow{AC}$