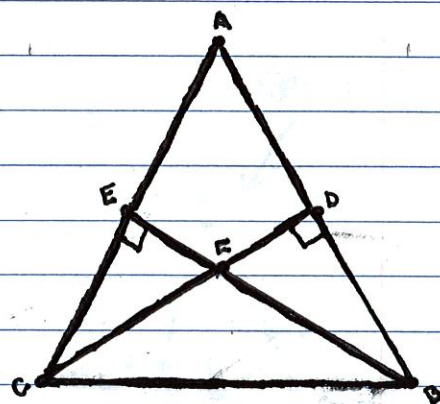


Taylor Yoder Period: 9 1/26/20

#27: If segments are drawn from the endpoints of the base of an isosceles triangle perpendicular to the opposite legs, then those segments are congruent.

$\triangle ABC$ is an isosceles \triangle	Given
$\overline{CD} \perp \overline{AB}$; $\overline{EB} \perp \overline{AC}$	Given
$\overline{CB} \cong \overline{CB}$	Reflexive
$\overline{AB} \cong \overline{AC}$	Def. of isosceles \triangle
$m\angle FEC = 90^\circ$ $m\angle FDB = 90^\circ$	Def. of \perp
$m\angle FEC = m\angle FDB$	Substitution
$m\angle FEC \cong m\angle FDB$	Def. of \cong
$\angle ACB \cong \angle ABC$	Base \angle 's thrm
$\triangle ECB \cong \triangle DBC$	AAS \cong
$\overline{CD} \cong \overline{EB}$	CPCTC



Given: $\triangle ABC$ is an isosceles \triangle ;
 $\overline{CD} \perp \overline{AB}$; $\overline{EB} \perp \overline{AC}$

Prove: $\overline{CD} \cong \overline{EB}$