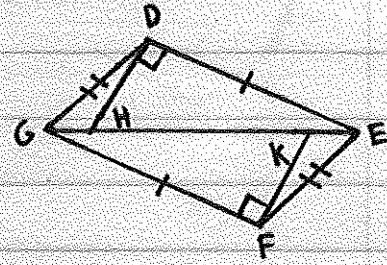


Alina Tran

Proof #16

Given:  $\overline{DE} \cong \overline{FG}$ ;  $\overline{GD} \cong \overline{EF}$   
 $\angle HDE$  &  $\angle KFG$  are rt.  $\angle$ 's  
 Prove:  $\overline{DH} \cong \overline{FK}$



$\overline{DE} \cong \overline{FG}$ ; $\overline{GD} \cong \overline{EF}$ $\angle HDE$ & $\angle KFG$ are rt. $\angle$ 's	Given
$\overline{GE} \cong \overline{GE}$	Ref. l.
$m\angle HDE = 90^\circ$ ; $m\angle KFG = 90^\circ$	Def. of rt. $\angle$ 's
$m\angle HDE = m\angle KFG$	Subst.
$\angle HDE \cong \angle KFG$	Def. of $\cong$
$\triangle GDE \cong \triangle EFG$	SSS $\cong$
$\angle DEG \cong \angle FGE$	CPCTC
$\triangle HDE \cong \triangle KFG$	ASA $\cong$
$\overline{DH} \cong \overline{FK}$	CPCTC

Good  
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