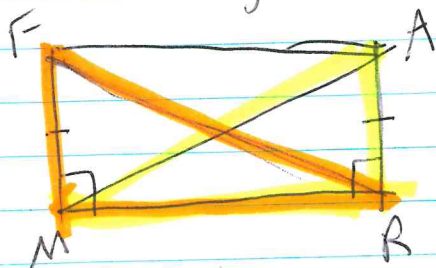


(#15 in homework)

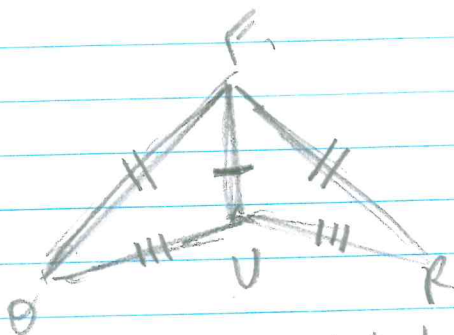
Prove: diagonals of a rectangle are congruent.



Given: Quadrilateral FARM with $\overline{FM} \cong \overline{AR}$, $\angle FMR \cong \angle ARM = 90^\circ$

Show: $\overline{FR} \cong \overline{AM}$

What	Why
$\overline{FM} \cong \overline{AR}$?
$\angle FMR \cong \angle ARM = 90^\circ$?
?	Shared side
?	SAS Shortcut
?	Corresponding parts are congruent (or CPCTC or def. of congruent polygons)



Given: $\overline{OQ} \cong \overline{OR}$ $\overline{OU} \cong \overline{UR}$

Show: $\angle O \cong \angle R$

What	Why
$\overline{OQ} \cong \overline{OR}$	Given
$\overline{OU} \cong \overline{UR}$	Given
$\overline{OU} \cong \overline{OU}$	Shared Side
$\triangle OQU \cong \triangle ORU$	SSS
$\angle O \cong \angle R$	Corresponding parts are congruent.