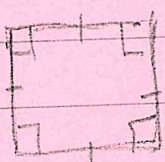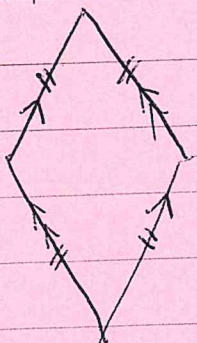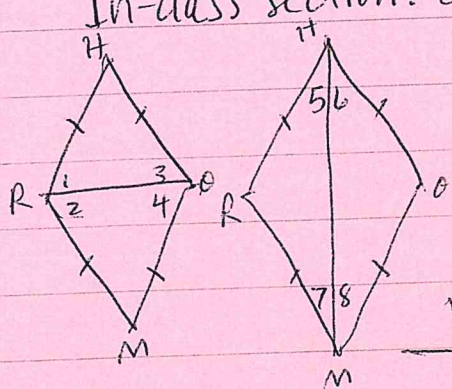In G.T. define rhombus

A rhombus is an _____

A square is an _____
parallelogram

In-class section: Copy sketch, given, show. FITB's

Given: rhombus RHOM with
$\overline{RH} \cong \overline{HO} \cong \overline{OM} \cong \overline{MR}$ and one diagonal

Show: $\angle 1 \cong \angle 2, \angle 3 \cong \angle 4, \angle 5 \cong \angle 6, \angle 7 \cong \angle 8$

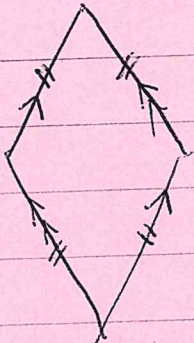| What	Why
①	Given
② $\overline{RO} \cong \overline{RO}$, $\overline{HM} \cong \overline{HM}$	②?
	SSS Post.
③ _____ , _____	
④ _____ , _____	Def of congruent polygons
_____ , _____	

∴ The diagonals of a rhombus bisect the angles of a rhombus.   C-51
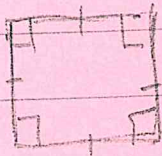
HW#17 p290-2: 1-16, 25
write up C-50-53, if you have not
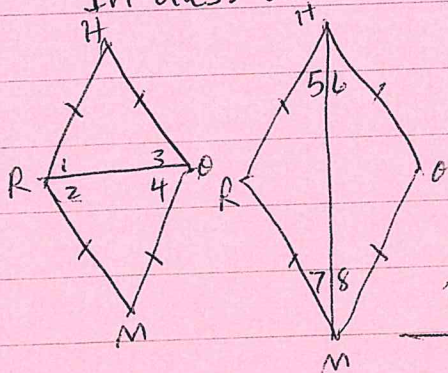p 288-290

In G.T. define rhombus

A rhombus is an
__equilateral__   __parallelogram__.

A square is an
__equilateral__, __equiangular__
parallelogram

In-class section: Copy sketch, given, show. FITB's

Given: rhombus RHOM with
$\overline{RH} \cong \overline{HO} \cong \overline{OM} \cong \overline{MR}$ and one diagonal

Show: $\angle 1 \cong \angle 2, \angle 3 \cong \angle 4, \angle 5 \cong \angle 6, \angle 7 \cong \angle 8$

What	Why
① $\overline{RH} \cong \overline{HO} \cong \overline{OM} \cong \overline{MR}$	Given
② $\overline{RO} \cong \overline{RO}$, $\overline{HM} \cong \overline{HM}$	②?
③ $\triangle HRO \cong \triangle MRO$, $\triangle HRM \cong \triangle HOM$	SSS Post.
④ $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 4$ $\angle 5 \cong \angle 6$ $\angle 7 \cong \angle 8$	Def of congruent polygons.
⑤ $\overline{RO}$ & $\overline{HM}$ are angle bisectors	Def of ∠ bisector

∴ The diagonals of a rhombus bisect the
angles of a rhombus.   C-51

HW #17 p290-2: 1-16, 25
write up C-50-53 if you have not
p 288-290