Marking Midpoints, Bisectors and Perpendicular Bisectors

PART 1

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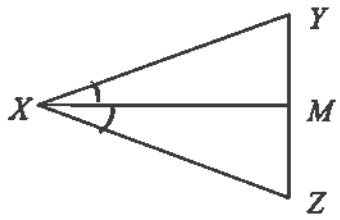
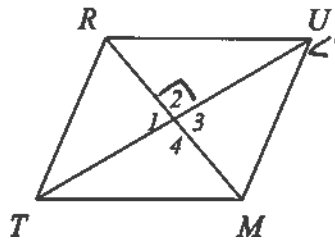
a) Draw and label the part of picture that the given refers to.
b) Mark both pictures with the given.
c) Write the parts that are made congruent by what is given.

1. Given: $\overline{XM}$ bisects $\angle ZXY$.



$\angle YXM \cong \angle ZXM$

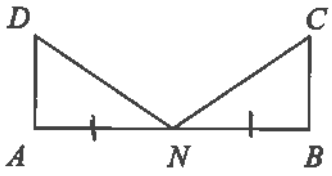
2. Given: $\overline{RM} \perp \overline{TU}$



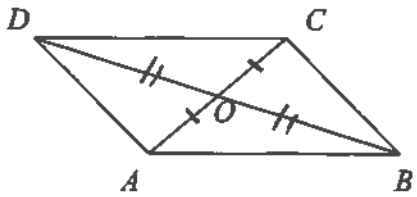
$\angle 1 \cong \angle 2 \cong \angle 3 \cong \angle 4$

3. Given: N is the midpoint of $\overline{AB}$.

$\overline{AN} \cong \overline{BN}$



4. Given: $\overline{AC}$ and $\overline{BD}$ bisect each other.



$\overline{OC} \cong \overline{OA}$
$\overline{DO} \cong \overline{BO}$

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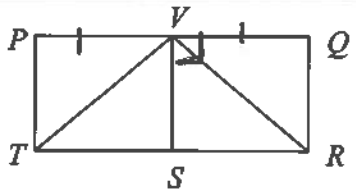
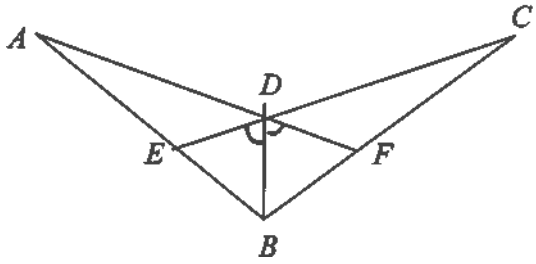
5. Given: $\overline{SV}$ is the perpendicular bisector of $\overline{PQ}$.



$\overline{PV} \cong \overline{QV}$

$\angle QVS \cong \angle PVS$

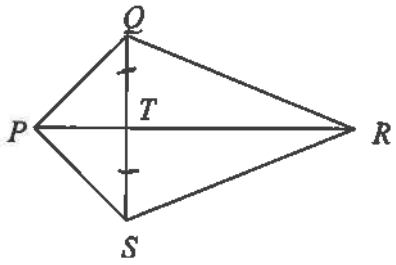
6. Given: $\overline{DB}$ bisects $\angle EDF$.



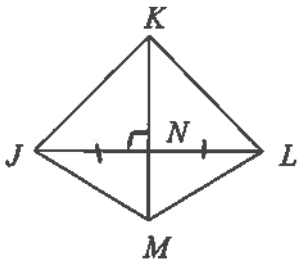
$\angle EDB \cong \angle FDB$

7. Given: T is the midpoint of $\overline{QS}$.

$\overline{QT} \cong \overline{ST}$



8. Given: $\overline{KM}$ is the perpendicular bisector of $\overline{JL}$.



$\overline{JN} \cong \overline{LN}$

$\angle KNJ \cong \angle LNK$

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