

6-2 Properties of Parallelograms

Objective : Use Properties of parallelograms

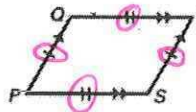
Parallelogram: a quadrilateral with 2 pair of parallel sides

↑
4 sides

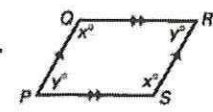


Theorems:

If a quadrilateral is a parallelogram then

-  opposite sides are congruent

-  opposite angles are congruent

-  consecutive angles are supplementary

next to each other

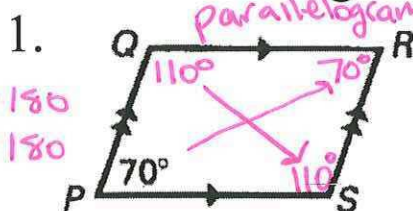
$$x + y = 180^\circ$$

-  diagonals bisect

$\overline{PM} = \overline{RM}$ $\overline{QM} \cong \overline{SM}$ cut into equal parts

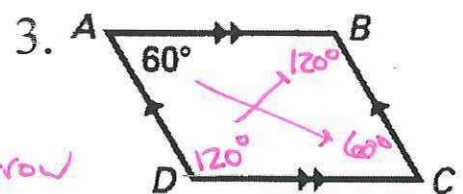
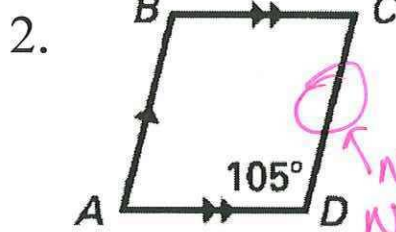
Examples:

Find the missing angles



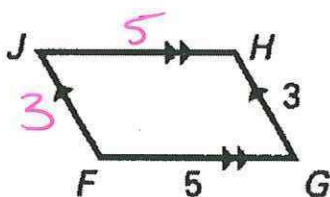
$$P + Q = 180$$

$$70 + Q = 180$$

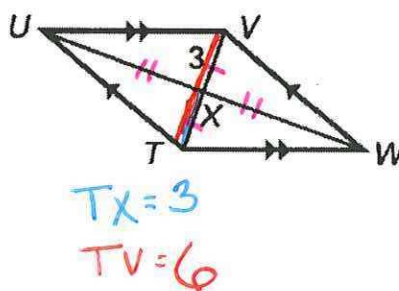


$$60 + D = 180$$

4. Find JH and JF



5. Find TX and TV



6. Find AD and AB

