## 8-2 Parallelograms

## Parallelograms:

*A quadrilateral with both pair of opposite sides parallel.
*Symbol: $\square$ ABCD


8-2 Parallelograms
Properties of Parallelograms:

- Opposite sides are congruent.

- Opposite angles are congruent.

- Consecutive angles are supplementary.
- If a parallelogram has one right angle, it ${ }^{x \times y=180}$ has FOUR right angles.
- Diagonals bisect each other. 0
- Each diagonal of a parallelogram separates the parallelogram into 2 congruent triangles.
1.) RSTU is a parallelogram. Find measure of angle URT, measure of angle RST, and the value for y .

$$
m \angle C P T=40^{\circ}
$$


alt. int. angles

2.) What are the coordinates of the intersection of the diagonals of parallelogram MNPR, with vertices $M(-3,0), N(-1,3) P(5,4), R(3,1) ?$

midpy. or $\overline{M p}$


