## "What makes a parallelogram special" activity:

Copy the following in your notes and fill in your answers there.

1.) Conclusion about opposite sides of a parallelogram:

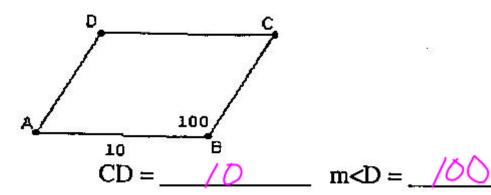
Opposites have = slopes which means they are parallel.

2.) Conclusion about relationship between side lengths:

3.) Conclusion about relationships between angles of a parallelogram:

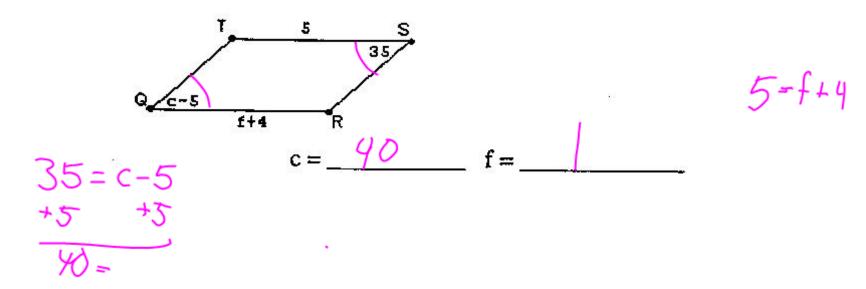
4.) Conclusion about the measures of the diagonals of a parallelogram:

## 1. Find CD and m<D.

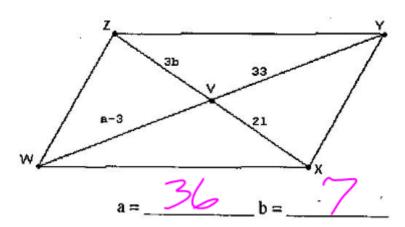


$$m < D = / \bigcirc \bigcirc$$

## 2. Find the values of c and f.



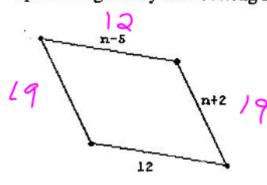
#### 3. Find the values of a and b.



$$W1566$$
 $ZX=42$ 
 $0-3=33$ 
 $+3+3$ 
 $\alpha=36$ 

## 4. Find the perimeter of the parallelogram by first solving for n.





# Parallelogram Properties notes (continued):

## Vocabulary:

- 1.) Parallelogram a polygon with opposite sides that are parallel
- 2.) Diagonal a segment that connects nonconsecutive vertices of a polygon

