

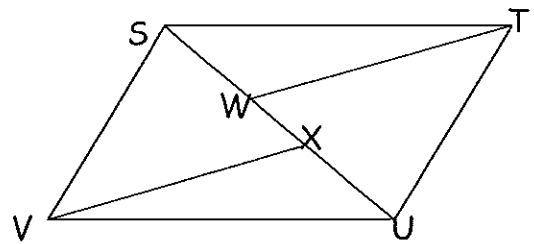
1. Given the coordinates  $A(-5,0)$ ,  $B(3,2)$ ,  $C(5,6)$  and  $D(-3,4)$ , show that  $ABCD$  is a parallelogram by three different methods.

a) Show that 2 pairs of opposite sides are congruent.

b) Show that 1 pair of opposite sides are both congruent and parallel.

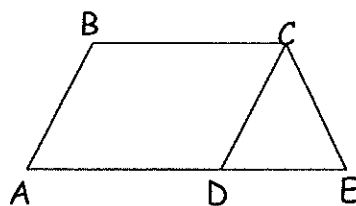
c) Show that the diagonals bisect each other.

2. Given:  $STUV$  is a parallelogram;  $\angle STW \cong \angle UVX$   
 Prove:  $\overline{SW} \cong \overline{XU}$



Statement	Reason

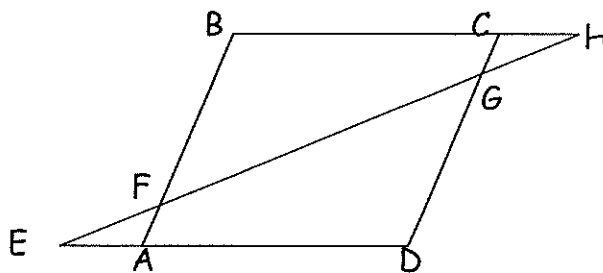
3. Given:  $ABCD$  is a parallelogram;  $\angle A \cong \angle E$   
 Prove:  $\overline{AB} \cong \overline{CE}$



Statement

Reason

4. Given: Parallelogram  $ABCD$ ;  $\overline{EF} \cong \overline{HG}$   
 Prove:  $\overline{AF} \cong \overline{CG}$



Statement

Reason