

6-3

Tests for Parallelograms

Tests to determine if a Quadrilateral is a Parallelogram

The following statements are ones that can be used to determine if a Quadrilateral is a Parallelogram. IF one of these statements is TRUE then you can conclude that the Quadrilateral is a Parallelogram.

- 1) If both pairs of opposite sides are parallel, then it is a parallelogram
- 2) If both pairs of opposite sides are congruent, then it is a parallelogram
- 3) If both pairs of opposite angles are congruent, then it is a parallelogram
- 4) If the diagonals bisect each other, then it is a parallelogram.
- 5) If one pair of opposite sides is congruent AND parallel, then it is a parallelogram.

Determine if the following Quadrilaterals are parallelograms.
IF so, state the reason why.

