

Testing for Parallelograms

A P

How to determine if a Quadrilateral is a Parallelogram

- A quadrilateral is a parallelogram:
 - If <u>both</u> pairs of opposite sides are parallel
 - If <u>both</u> pairs of opposite sides are congruent
 - If <u>both</u> pairs of opposite angles are congruent
 - If consecutive angles are supplementary in <u>both</u> directions
 - If the diagonals bisect each other
 - If one pair of opposite sides is both parallel & congruent



Is this a parallelogram? Why?







d)



















Determine if the given vertices define a parallelogram.

17. A(0, 1), B(4, 4), C(12, 4), D(8, 1)

19. J(-2, 3), K(-5, 7), L(3, 6), M(6, 2)