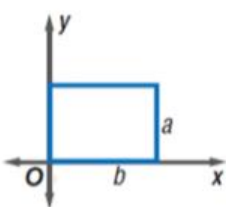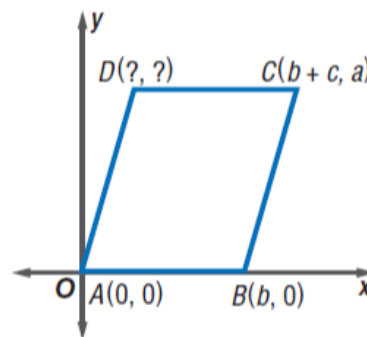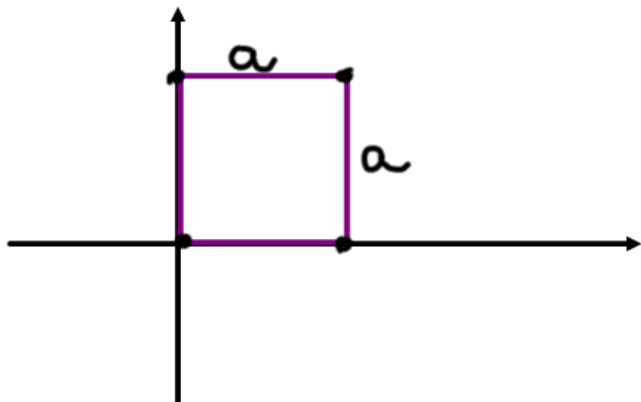# Coordinate Proof with Quadrilaterals

- Determine the coordinates.
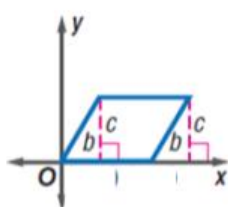
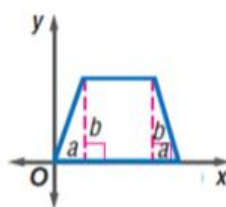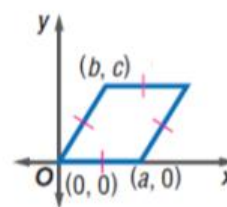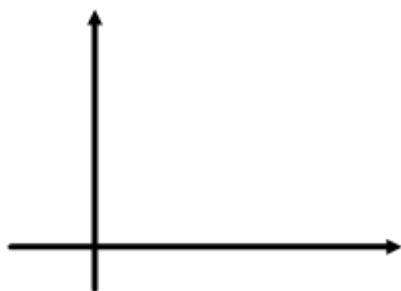|			
rectangle	parallelogram	isosceles trapezoid	rhombus

- Illustrate the following situation on a coordinate plane

Object 1. The median of an isosceles trapezoid is parallel to the base

Object 2. The diagonals of a rectangle are congruent.

Object 3. The segments joining the midpoints of the sides of a rectangle form a rhombus.

Given: *ABCD* is a square.
  M, N, P, and *Q* are midpoints.

Prove: *MNPQ* is a square.