Name			

Date_____

Jadrilaterals – Part 2 Quadrilaterals in Coordinate Geometry – Part 2 Independent Practice

1. A square has the vertices at (-2,6), (6,1), (1,-7), and (-7,-2). At what point do the diagonals of the square intersect?

2. A rhombus, COAL is centered at the origin. The longer diagonal is on the y-axis and has a length of 27m. The shorter diagonal is on the x-axis and has a length of has diagonals with length 19m. Determine the coordinates of the vertices.

3. Determine the most precise name of the quadrilateral with the vertices at H(b,2c), O(4b,3c), M(5b,c), and E(2b,0).



4.	Explain how each scenario can be proven using coordinate geometry.
	Part A: The diagonals of a rhombus are each other's bisectors.
	Part B: A parallelogram is formed when the midpoints of the sides of an isosceles trapezoid are connected.
5.	Determine which of the following formula(s) are needed to prove that a quadrilateral is an isosceles trapezoid. Select all that apply. Midpoint Formula Slope Formula Distance Formula The Area Formula The Perimeter Formula

