

Name \_\_\_\_\_

Graph the following set of ordered pairs to create quadrilateral ABCD:

A(0,0), B(-1,5), C(-10, 10), D(-5,1)

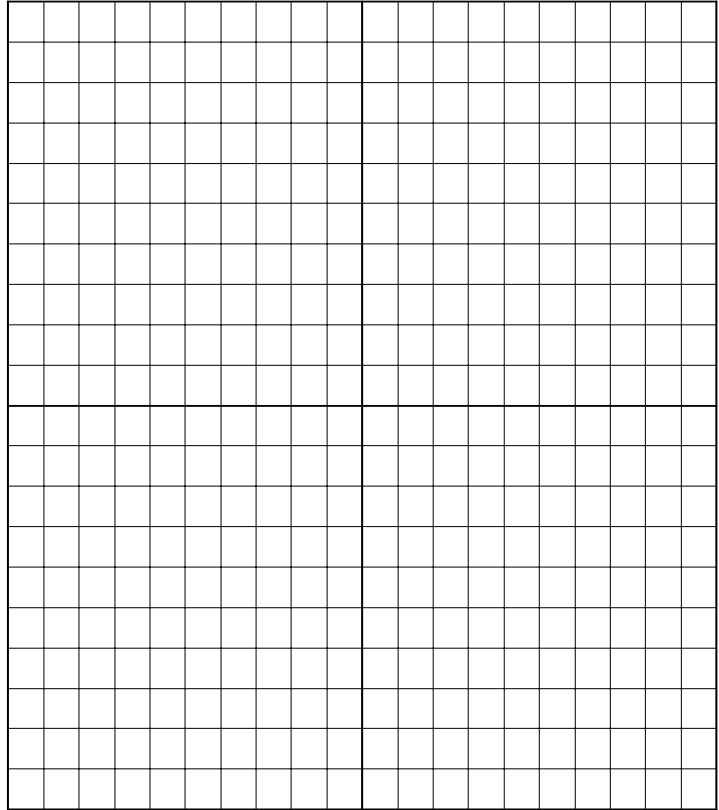
1. Read each statement below. Select the one statement that is true and check it off as correct. Then write a supporting argument as to why you believe the statement is true based on information you gather from the graph.

\_\_\_\_\_ A) The diagonals are perpendicular bisectors to each other.

\_\_\_\_\_ B) The diagonals are not perpendicular to each other.

\_\_\_\_\_ C) The one diagonal is a perpendicular bisector of the other.

Support:



2. Think about one property of a rhombus that is not true on the above quadrilateral. (This would prevent you from calling this quadrilateral a rhombus.) Describe the property and support why you know it is not true.

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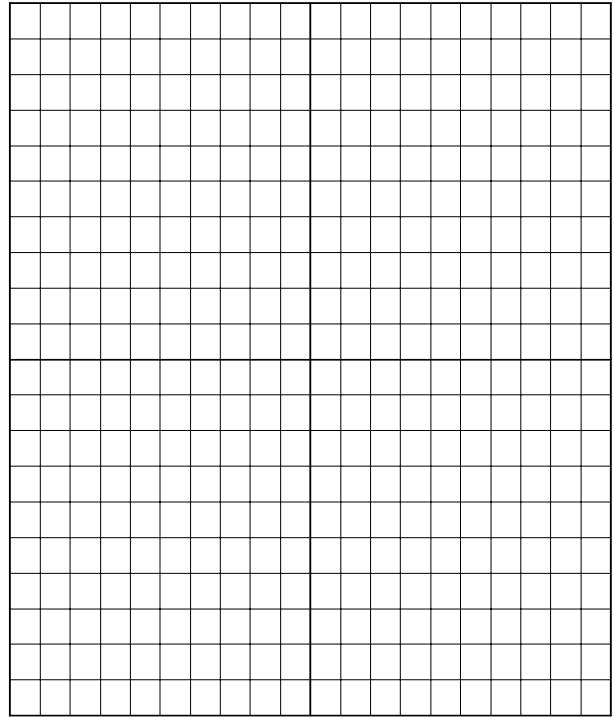
3. Think about one property of a parallelogram that is not true on the above quadrilateral. (This would prevent you from calling this quadrilateral a parallelogram..) Describe the property and support why you know it is not true.

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4. Graph the quadrilateral WXYZ whose coordinates are

W(0,0), X(4,-8), Y(10, -8), Z(16,0)



5. Graph the midsegment between the two non-parallel sides. Label it AB. Label the coordinates of points A and B.

6. Name two properties that are true about this midsegment and support how you know they are true from the graph.

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7. The diagonals in this polygon are perpendicular. (TRUE or FALSE ) Support using slope.

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