Integrated Math 3   Name: _____
Unit 1: Analytic Geometry
1.4   Date:_____   Period:_____
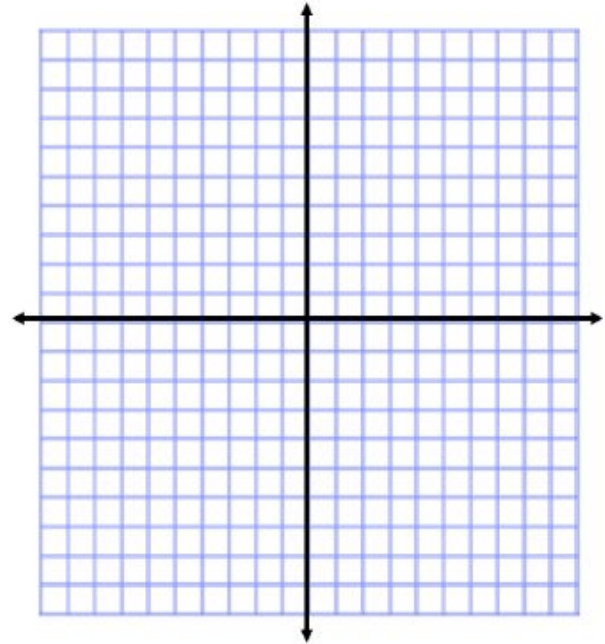
Objective: Determine the type of quadrilateral given four coordinates.

Warm Up: Fill in the missing information on the Quadrilateral Flowchart to the best of your knowledge.
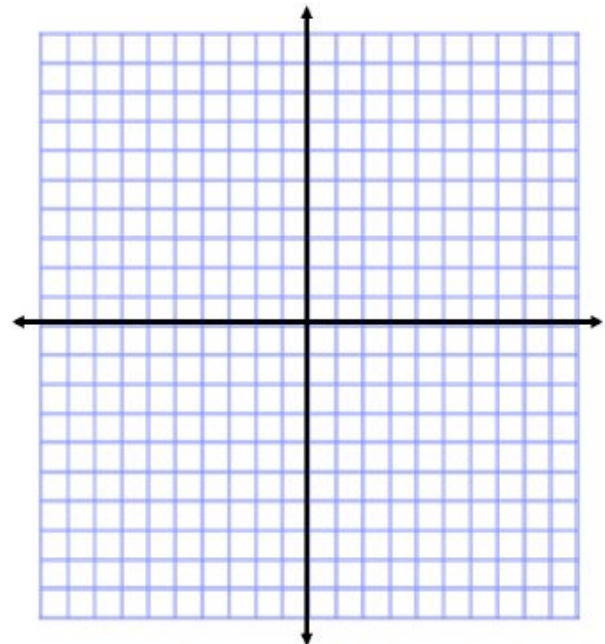
Example 1:

Determine the most descriptive name for quadrilateral ABCD with vertices at the coordinates $A(-1, 1)$, $B(2, 0)$, $C(3, 3)$, and $D(0, 2)$. Write a concise explanation for your reasoning using mathematical evidence to support your statement.
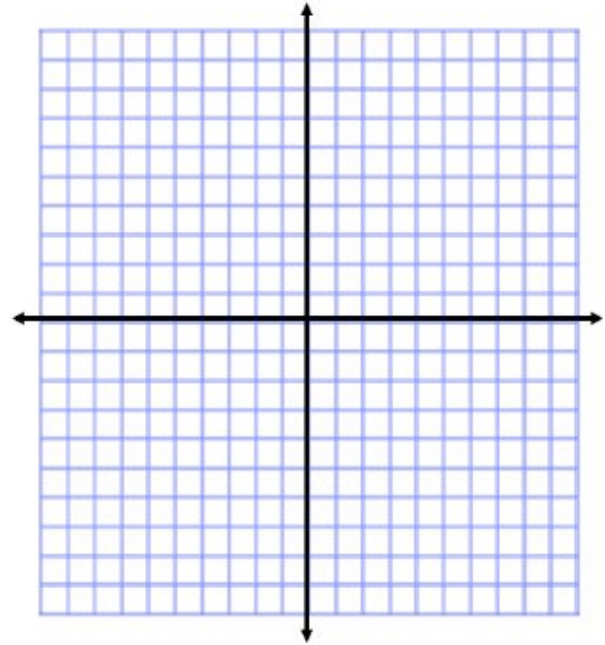
Example 2:

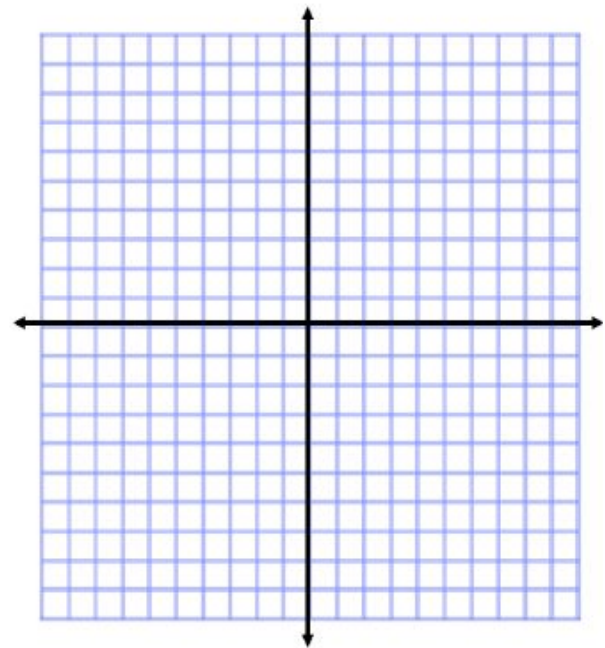Determine the most descriptive name for the quadrilateral with vertices at each set of coordinates below.

    a. $L(3, 3), M(1, 2), N(3, 1),$ and $P(5, 2)$

b. $A(0,0), B(6,3), C(2,3)$, and $D(0,2)$

c. $R(0,4), S(-1,1), T(2,0)$, and $U(3,3)$

d. K (1,4), J (3,6), L (3, 1), and M (5,4)