

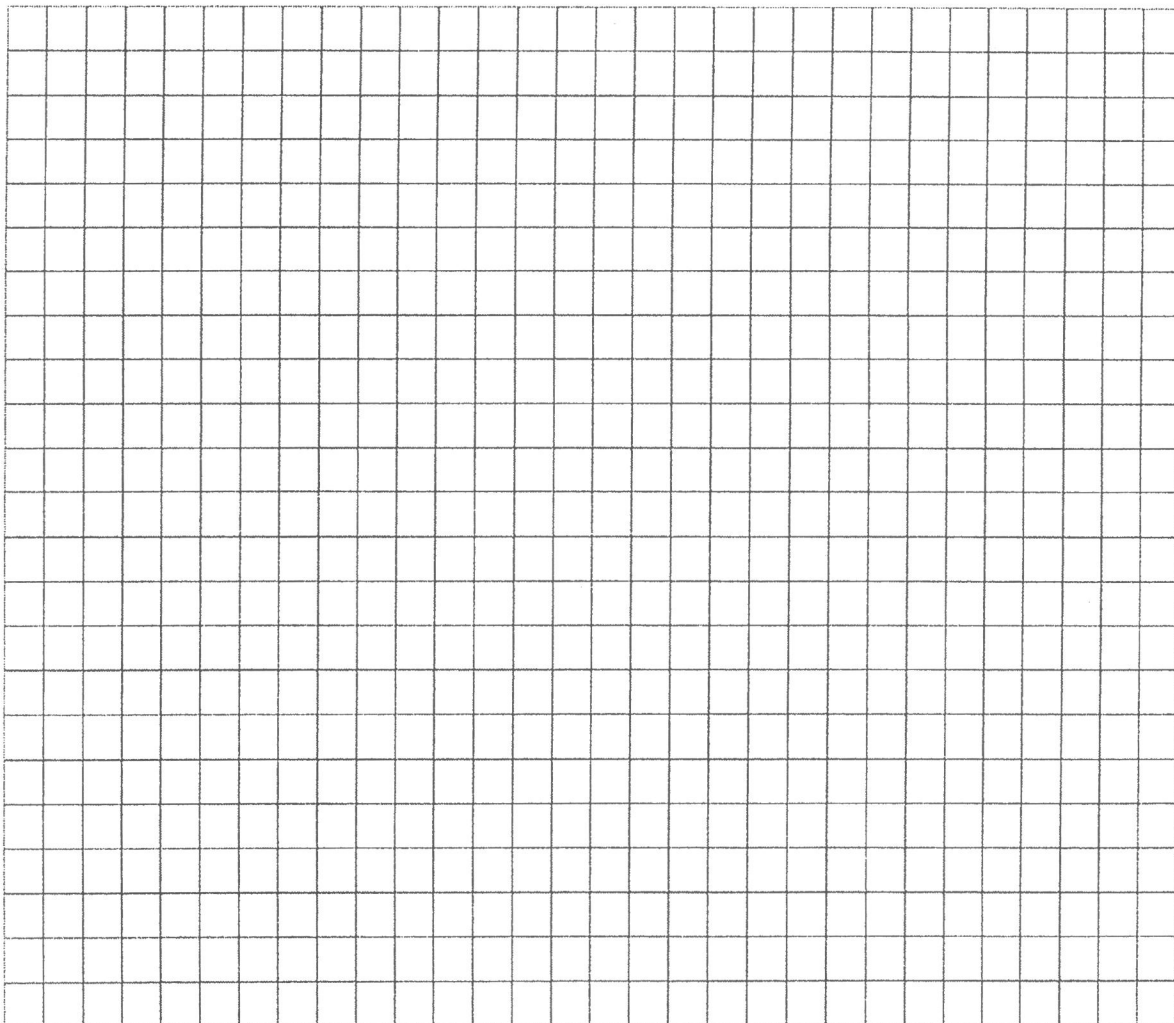
Topic: Quadrilaterals  
ORQ Graphing & Proving type of quad.

After section 6.6 (PH)  
After section 6.6 (ML)

## Determine the Quadrilateral

All work must be done inside the grid below.

1. Graph and label the quadrilateral having vertices:  
 $A(-1, 1)$ ,  $B(-5, -3)$ ,  $C(-4, -10)$ ,  $D(6, 0)$
2. Find the slope of  $\overline{AB}$ ,  $\overline{BC}$ ,  $\overline{CD}$ , and  $\overline{DA}$ .
3. Find the distance  $AB$ ,  $BC$ ,  $CD$ , and  $DA$ .
4. Determine the most precise name for the quadrilateral.



### Determine the Quadrilateral Rubric

#### Quadrilaterals

Task	Point Value
1. Graph Quadrilateral	
Graph 4 points correctly	2
Label each point	1
Draw in quadrilateral	1
2. Correct slope of each quadrilateral side	4
3. Distance of 4 sides	4
4. Precise name   Isosceles (2) Trapezoid (2)=	4
Explanation	4
	<hr/>
	20 pts.

Score	Range
4	20
3	16-19
2	11-15
1	5-10
0	0-4
Blank	Blank

Solution:

- 1.
2. Slope:  $AB = 1, BC = -7, CD = 1, DA = -1/7$
3. Distance:  $AB = \sqrt{32}, BC = \sqrt{50}, CD = \sqrt{200}, DA = \sqrt{50}$
4. Isosceles Trapezoid, because  $\overline{AB} \uparrow \overline{CD}$  and trapezoids have 1 pair of parallel sides; isosceles because  $\overline{BC} \cong \overline{AD}$ .