

Problem Set

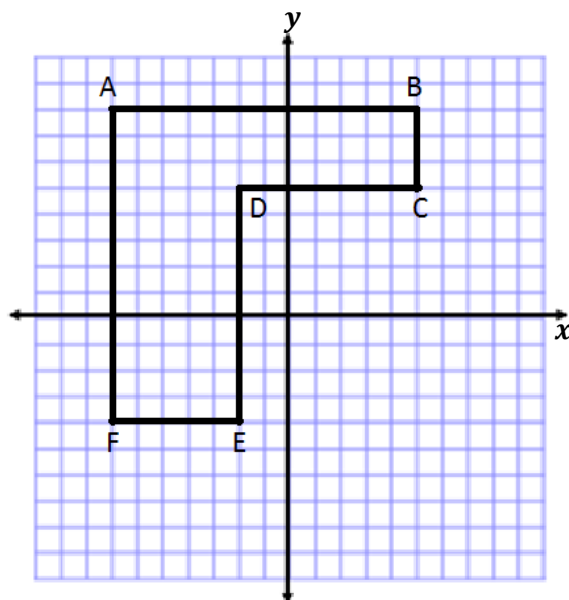
1. Given the pairs of points, determine whether the segment that joins them is horizontal, vertical, or neither.

- a. $X(3, 5)$ and $Y(-2, 5)$ _____
- b. $M(-4, 9)$ and $N(4, -9)$ _____
- c. $E(-7, 1)$ and $F(-7, 4)$ _____

2. Complete the table using absolute value to determine the lengths of the line segments.

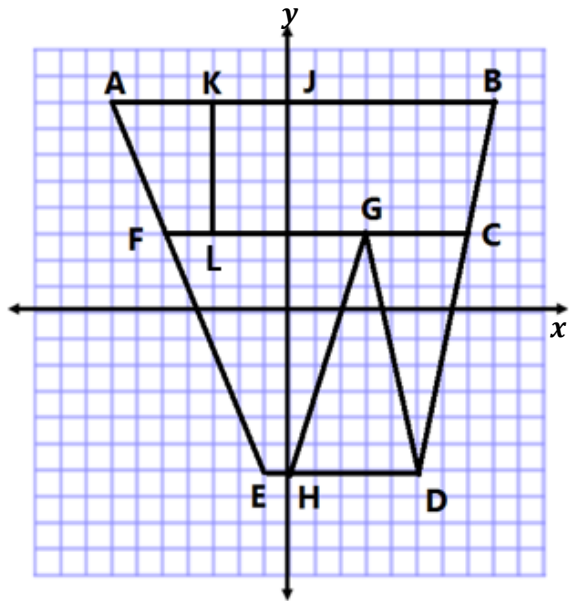
Line Segment	Point	Point	Distance	Proof
\overline{AB}	$(-3, 5)$	$(7, 5)$		
\overline{CD}	$(1, -3)$	$(-6, -3)$		
\overline{EF}	$(2, -9)$	$(2, -3)$		
\overline{GH}	$(6, 1)$	$(6, 16)$		
\overline{JK}	$(-3, 0)$	$(-3, 12)$		

3. Complete the table using the diagram and absolute value to determine the lengths of the line segments.



Line Segment	Point	Point	Distance	Proof
\overline{AB}				
\overline{BC}				
\overline{CD}				
\overline{DE}				
\overline{EF}				
\overline{FA}				

4. Complete the table using the diagram and absolute value to determine the lengths of the line segments.



Line Segment	Point	Point	Distance	Proof
\overline{AB}				
\overline{CG}				
\overline{CF}				
\overline{GF}				
\overline{DH}				
\overline{DE}				
\overline{HJ}				
\overline{KL}				

5. Name two points in different quadrants that form a vertical line segment that is 8 units in length.
6. Name two points in the same quadrant that form a horizontal line segment that is 5 units in length.