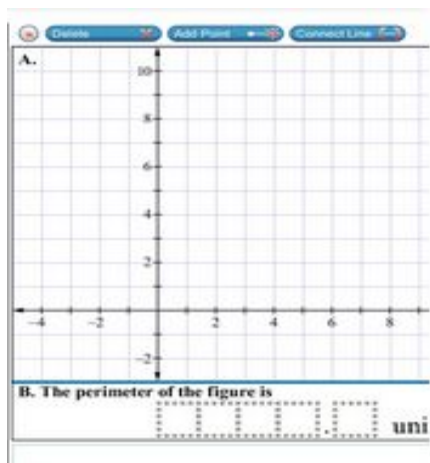
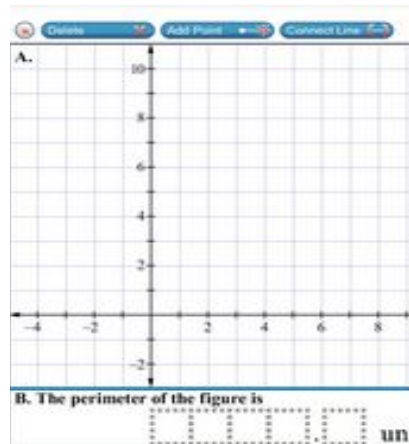


Pg	Diagonal Properties	Parallelogram (not rectangle, not rhombus)	Rectangle (not square)	Rhombus (not square)	Kite (not rhombus)	Square	Trapezoid	Quadrilateral with four different side lengths
1.2	<i>Diagonals bisect each other</i>							
2.2	<i>One diagonal is a perpendicular bisector of the other</i>							
3.2	<i>Diagonals bisect vertex angles</i>							
4.2	<i>Diagonals are congruent</i>							
5.2	<i>Diagonals are perpendicular</i>							

1. Draw a Parallelogram that is NOT a rectangle, then calculate the perimeter.



2. Draw a Kite that is NOT a rectangle, then calculate the perimeter.



3. If the diagonals bisect each other then the quadrilateral must be a _____, or a _____, or a _____ or a _____.

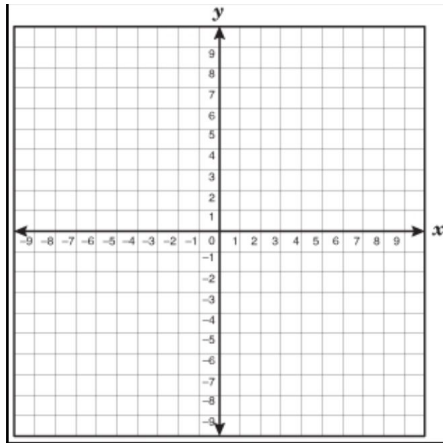
4. If the diagonals are congruent, the quadrilateral must be a _____, or a _____.

5. If the Diagonals are perpendicular the quadrilateral must be a _____, _____, or a _____.

6. If opposite sides are congruent, but NOT all sides congruent the quadrilateral must be a _____, or a _____.

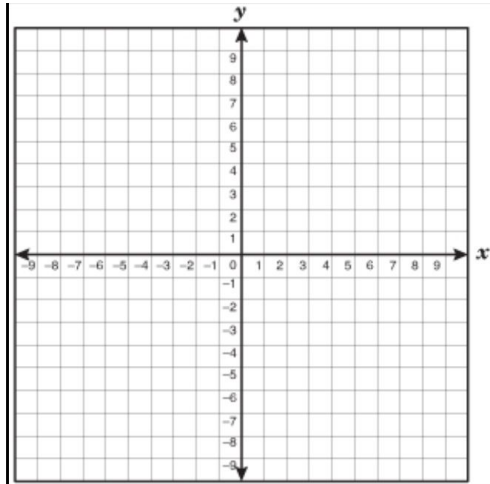
7. Find the 4th vertex, such that the figure will be a parallelogram. Then find the perimeter.

$(-7,1)$ $(-5,4)$ $(1,1)$ (____, ____)



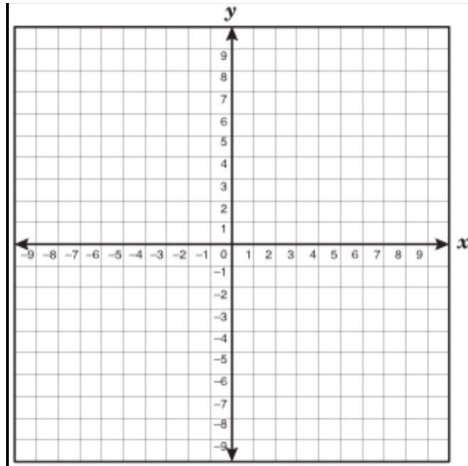
8. Find the 4th vertex, such that the figure will be a Kite. Then find the perimeter.

$(1,3)$ $(3,1)$ $(3,7)$ (____, ____)



9. Find the 4th vertex, such that the figure will be a Rhombus. Then find the perimeter.

$(2,7)$ $(6,9)$ $(10,7)$ (____, ____)



STATION 3

10-13.

$a + b + c + d = 360^\circ$

1.

2.

3.

4.

STATION 4

18. Write the equation of a line that has a reflection in the x-axis, a stretch factor of 3, is shifted up 3, and right 1.

19.

20. Which two lines are parallel?

- I. $2x + 3y = 18$
- II. $3y = 2x + 9$
- III. $3y = 3 + 2x$

- a. I and II
- b. II and III
- c. I and III
- d. No two lines are parallel

21. Line k contains the point $(-2, 5)$ and is parallel to a line that passes through the points $(1, -8)$ & $(-3, -2)$.

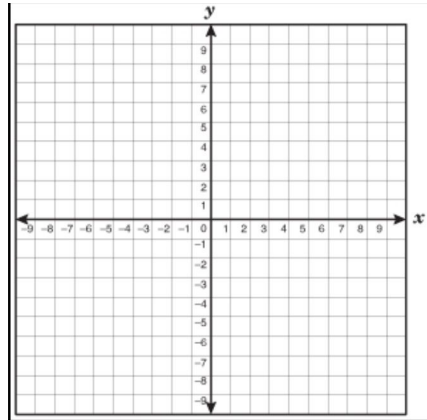
Write the equation that represents k .

22. Find the equations of the graphs below.

STATION 5

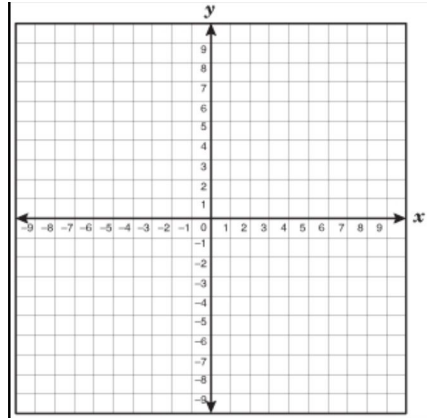
14. Identify what kind of quadrilateral the following points create.

$(-5,-1)$ $(-10,3)$ $(-5, 7)$ $(0,3)$



15. Identify what kind of quadrilateral the following points create.

$(1,0)$ $(-4,5)$ $(0, 9)$ $(5,4)$



15. Identify what kind of quadrilateral the following points create.

$(0,0)$ $(1,4)$ $(7, -2)$ $(8,2)$

