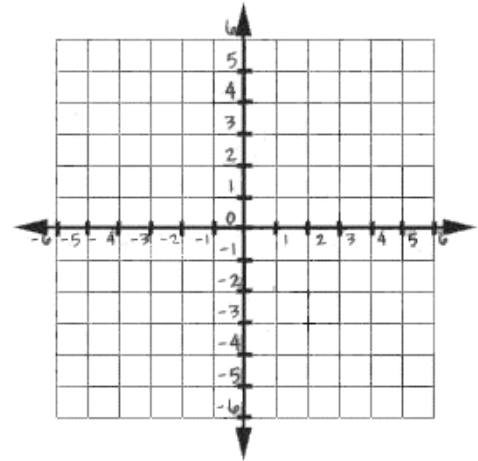


Directions: Identify the Quadrilateral PQRS, with the given points. SHOW ALL WORK!!!

- 1) Plot Quadrilateral PQRS: P(1, 1) Q(4, 3) R(6, 0) S(-3, -2)
- 2) What shape does it appear to be?
- 3) What do you have to show?
- 4) Check off all that apply:



- 5) Which shape is it? \_\_\_\_\_
- 6) Why?

\_\_\_\_\_ opposite sides parallel

\_\_\_\_\_ consecutive sides perpendicular

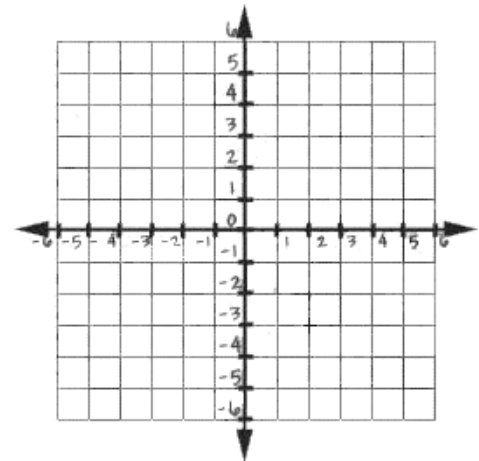
\_\_\_\_\_ four congruent sides

\_\_\_\_\_ Only 1 pair of opposite sides parallel

\_\_\_\_\_ Congruent legs

\_\_\_\_\_ two pairs of congruent sides (consecutive)

- 7) Plot Quadrilateral PQRS: P(1, 2), Q(6, 2), R(3, -2), & S(-2, -2).
- 8) What shape does it appear to be?
- 9) What do you have to show?
- 10) Check off all that apply:



- 11) Which shape is it? \_\_\_\_\_
- 12) Why?

\_\_\_\_\_ opposite sides parallel

\_\_\_\_\_ consecutive sides perpendicular

\_\_\_\_\_ four congruent sides

\_\_\_\_\_ Only 1 pair of opposite sides parallel

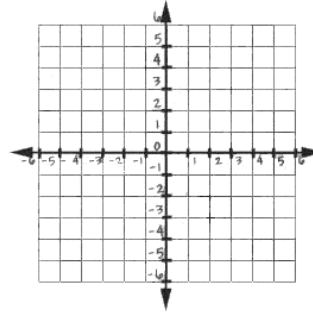
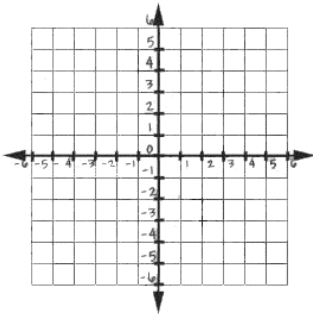
\_\_\_\_\_ Congruent legs

\_\_\_\_\_ two pairs of congruent sides (consecutive)

**Directions:** State the ordered pair that is needed to make the following figure.

13) Rhombi ABCD when  $A(-11, 0)$ ,  $B(-1, 0)$ ,  $C(8, 6)$

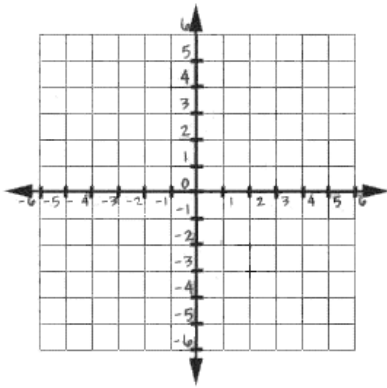
14) Square ABCD when  $A(0, 4)$ ,  $B(1, 1)$ ,  $C(4, 2)$



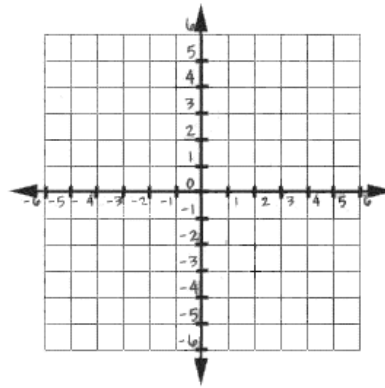
**Directions:** Complete each proof.

15) Prove 2 different ways that ABCD is a rhombus when  $A(1, 3)$ ,  $B(-3, 0)$ ,  $C(0, -4)$ , and  $D(4, -1)$ .

1<sup>st</sup> Proof:



2<sup>nd</sup> Proof:



16) Is ABCD in question #15 a square? Justify your answer with an informal proof.

