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Unit 10 Lesson 5: Proving Rectangles on the Coordinate Place

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It's time for...**RECTANGLES** on the Coordinate Plane



Do Now: Kindly list the 2 properties that prove a parallelogram is a rectangle:

1. ______

2. _____

And now...let's discuss how we can show the following on the coordinate plane:

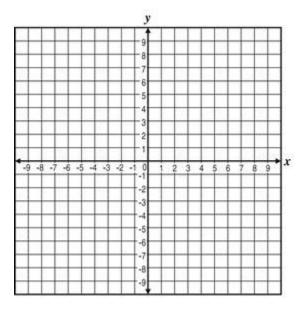
How can we show two sides form a right angle?

How can we show diagonals are congruent?

Time to put this into practice!

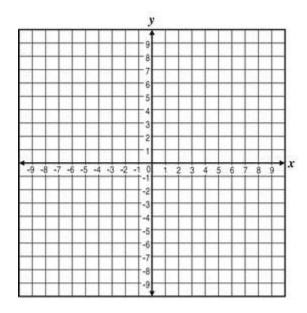
1. Quadrilateral JAKE has vertices J(3,1), A(-6,7), K(-8,4), and E(1,-2).

Prove that JAKE is a rectangle.



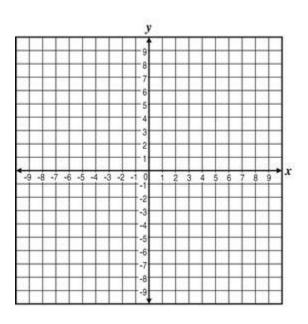
2. Quadrilateral SOPH has vertices S(4,1), O(2,7), P(-7,4), and H(-5,-2).

Prove that SOPH is a rectangle.

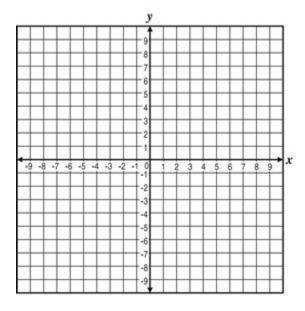


3. Quadrilateral RACH has vertices R(-3,5), A(5,-1), C(2,-5), and H(-6,1).

Prove that RACH is a rectangle.



- 4. Quadrilateral WTMC has vertices W(2,-2), T(8,-1), M(9,3), and C(3,2).
 - a) Prove that WTMC is a parallelogram.
 - b) Prove that WTMC is not a rectangle.



5.

Prove that quadrilateral PLUS with the vertices P(2,1), L(6,3), U(5,5), and S(1,3) is a rectangle.

