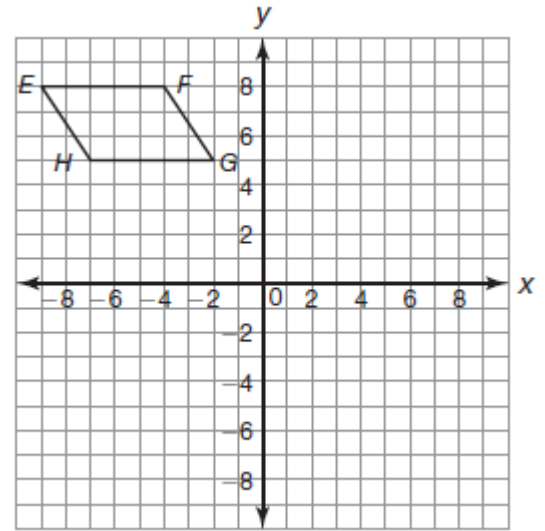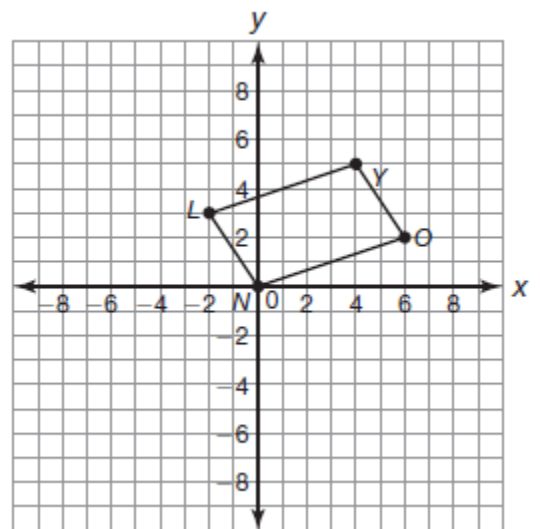1a. Prove quadrilateral EFGH is a parallelogram. *(Hint: you must show the opposite sides are parallel)*
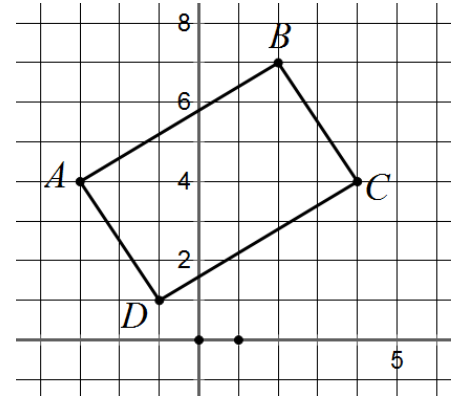Algebra:

Summary Sentences:

b. Find the perimeter of EFGH.

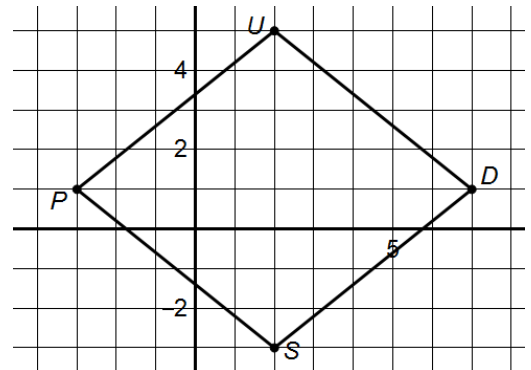2a. Prove quadrilateral LYON is a parallelogram.

b. Find the area of LYON.

3. A **Rectangle** is a quadrilateral with 4 right angles.
  a. Is quadrilateral ABCD a *Rectangle*? Justify your response.
  (Hint: Use slope to determine if the angles are right.)

b. In geometry, it is **NEVER** good to use *"because it looks that way in the picture"* as a justification for your reasoning. Use this rectangle example to explain why *it is necessary to show evidence that backs up your reasoning*.

4. A **Rhombus** is a quadrilateral with 4 congruent sides.
a. Prove SPUD is a Rhombus.

c. Do the diagonals of Rhombus SPUD bisect each other? Justify your response.