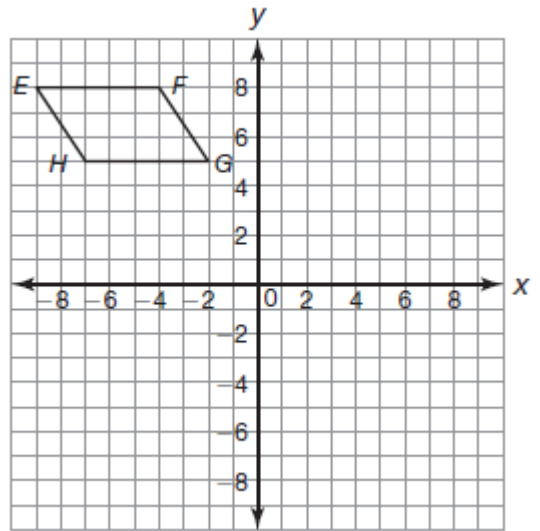
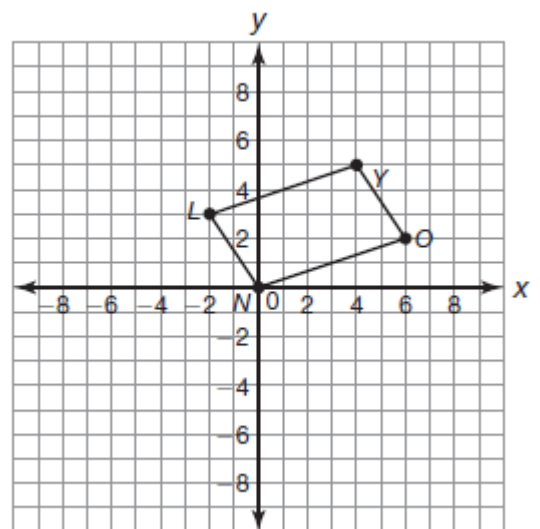


1a. Prove quadrilateral EFGH is a parallelogram.



b. Find its area.

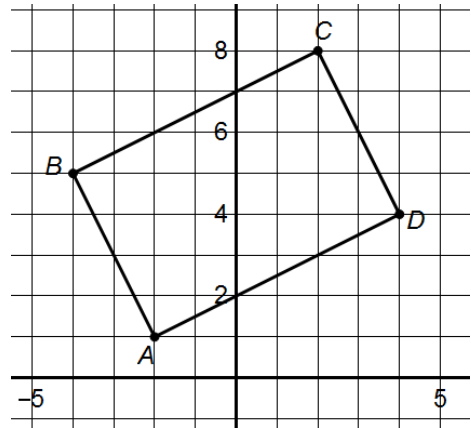
2a. Prove quadrilateral LYON is a parallelogram.



b. Find its area.

3. A **Rectangle** is a quadrilateral with 4 right angles.

a. Use slope to show that quadrilateral ABCD is a *Rectangle*.

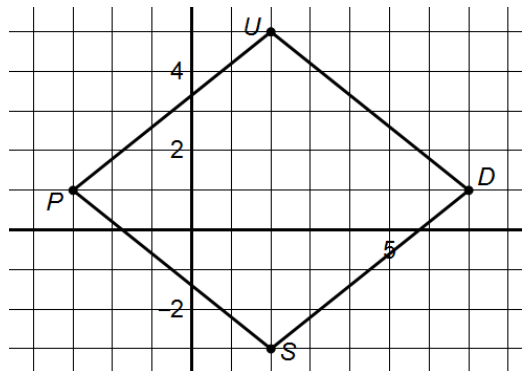


b. Prove Rectangle ABCD is also a parallelogram.

c. Are the opposite sides of Rectangle ABCD congruent? Explain your reasoning.

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

a. Use the distance formula to show that quadrilateral SPUD is a Rhombus.



b. Prove Rhombus SPUD is also a parallelogram.

c. Do the diagonals of Rhombus SPUD bisect each other? Explain your reasoning.