Name _____                     Date _____
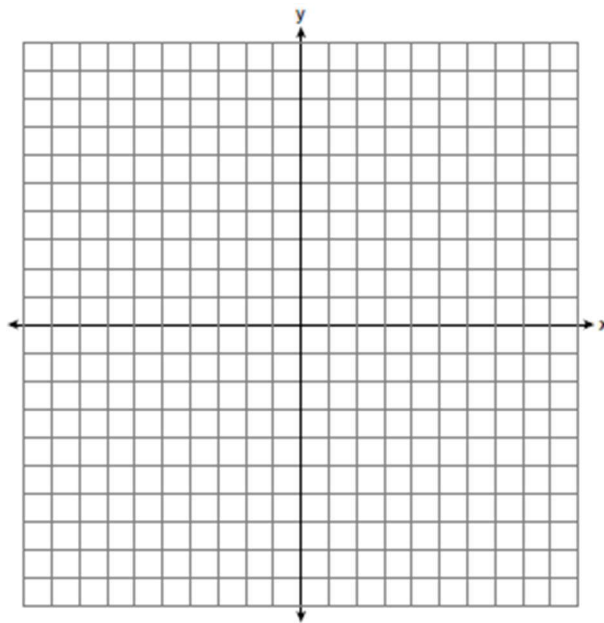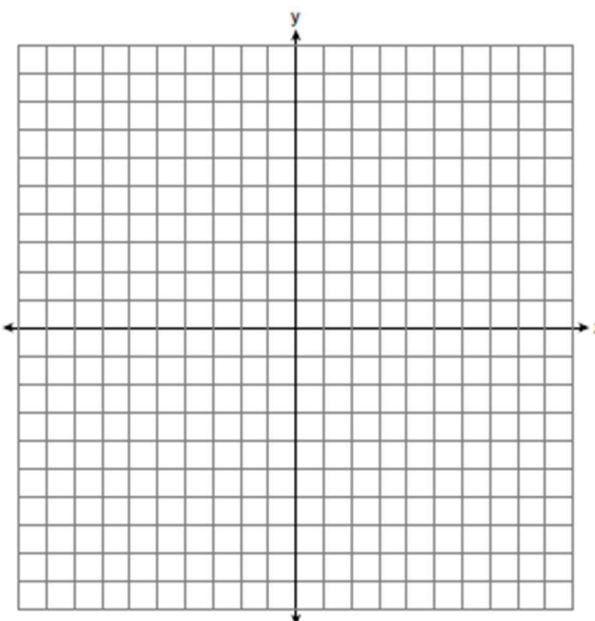Mr. Schlansky                                     Geometry

# *Parallelogram Coordinate Geometry Proofs*
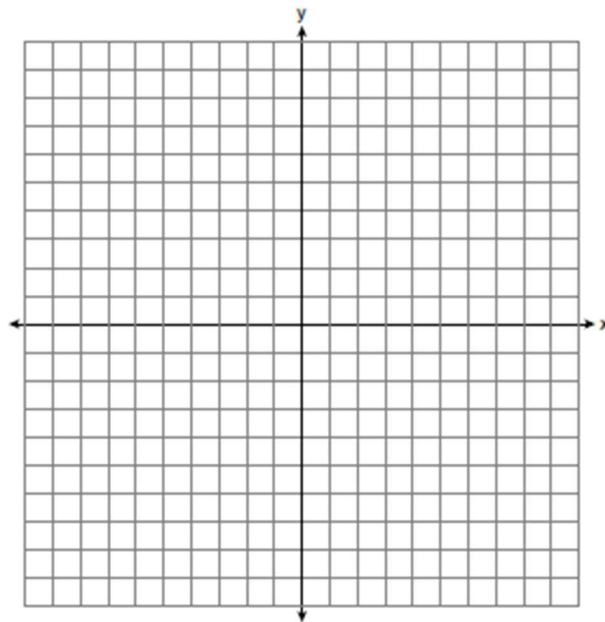
1. Quadrilateral *MATH* has vertices M(-2, -3), A(-1, 1), T(4, 4), and H(3, 0). Prove that *MATH* is a parallelogram.



1.  Quadrilateral *WEAK* has vertices W(-3,2), E(0, -3), A(10,3), and K(7,8). Prove that quadrilateral *WEAK* is a rectangle.

3. The coordinates of the vertices of quadrilateral *ROCK* are R(-7,4), O(-2,9), C(5,8), and K(0,3). Prove that quadrilateral *ROCK* is a rhombus.

4. The coordinates of the vertices of quadrilateral *ABCD* are A(2,0), B(6,-4), C(10,0), and D(6,4). Prove that quadrilateral ABCD is a square.