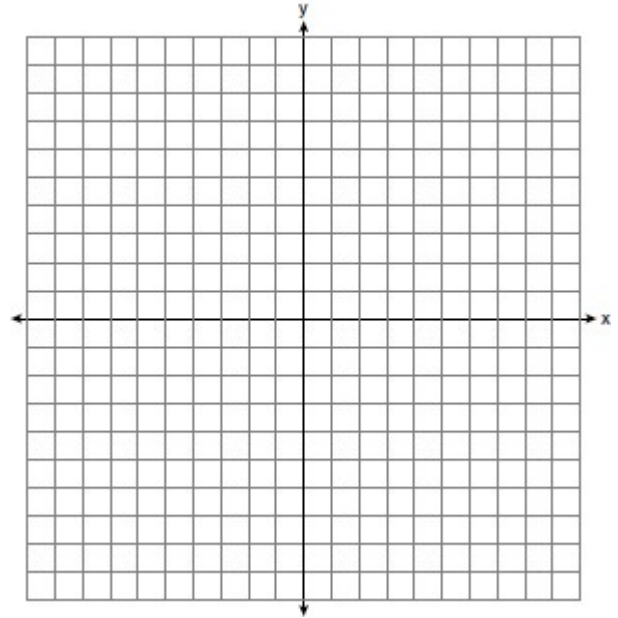


Name _____
Mr. Schlansky

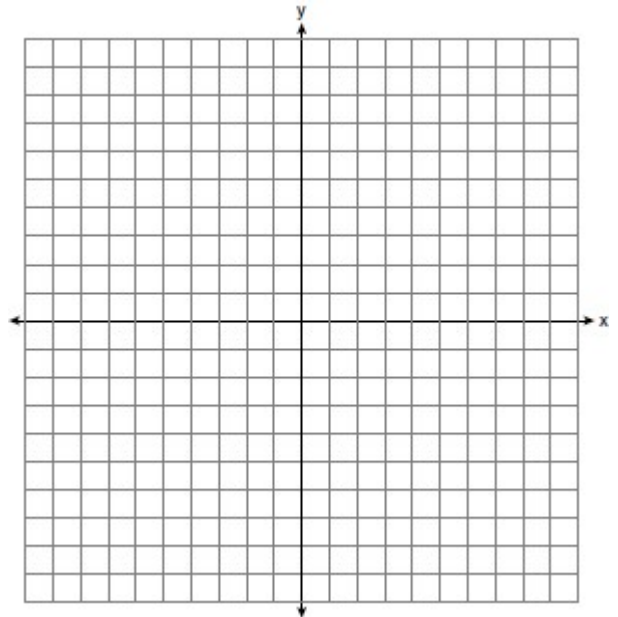
Date _____
Geometry

Coordinate Geometry Trapezoid Proofs

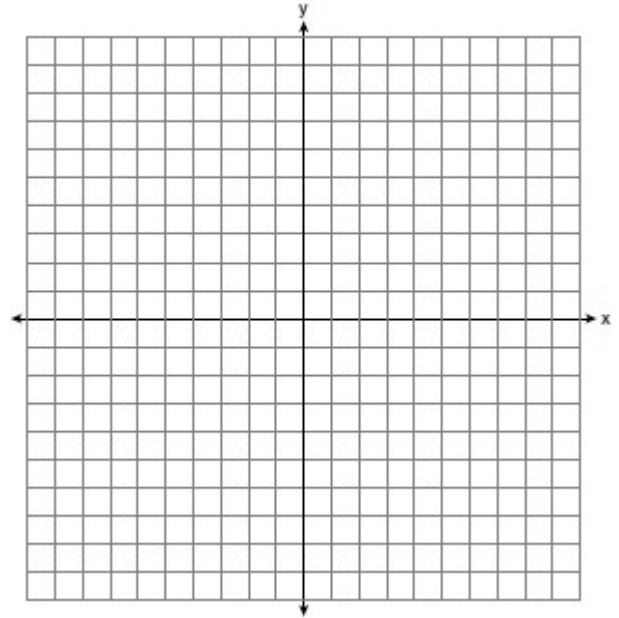
1. Given $A(-4,6)$, $B(2,9)$, $C(8,6)$, $D(-2,1)$. Prove ABCD is a trapezoid but *not* an isosceles trapezoid.



2. The coordinates of quadrilateral JKLM are $J(1,-2)$, $K(13,4)$, $L(6,8)$, and $M(-2,4)$. Prove that quadrilateral JKLM is a trapezoid but not an isosceles trapezoid.



3. Quadrilateral DEFG has vertices $D(1,3)$ $E(-1,1)$ $F(-1,-2)$ $G(4,3)$. Prove that DEFG is an isosceles trapezoid.



4. Quadrilateral ABCD has vertices $A(1,1)$, $B(2,5)$, $C(5,7)$ and $D(7,5)$. Prove that quadrilateral ABCD is a trapezoid but NOT an isosceles trapezoid.

