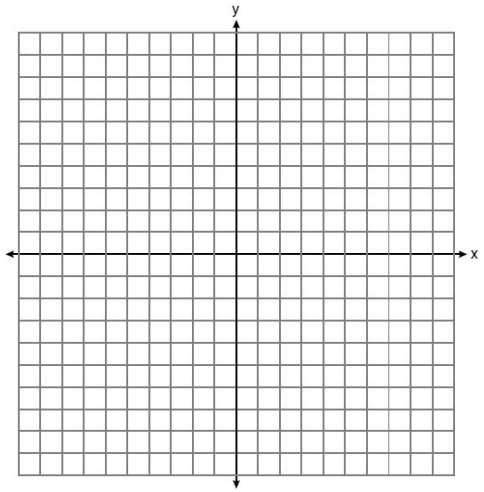
Name _____ Date _____

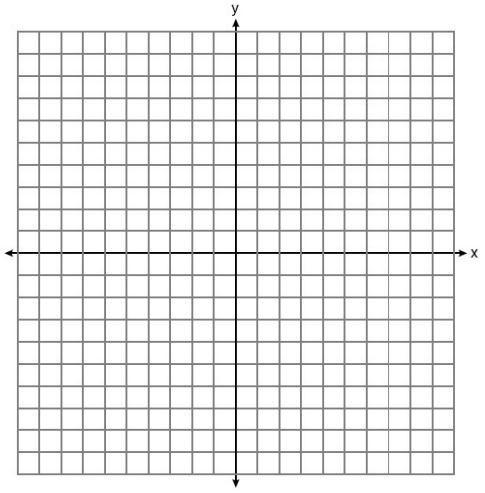
Mr. Schlansky Geometry

Proving Segments are Parallel/Perpendicular

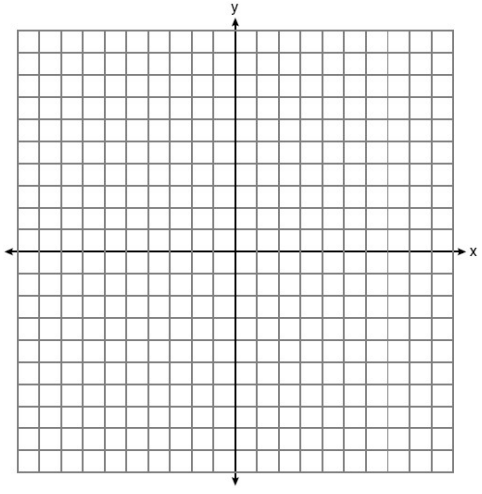
1. A(-5,2) B(0,4) C(-2,-2) D(8,2)
Prove $\overline{AB} \parallel \overline{CD}$



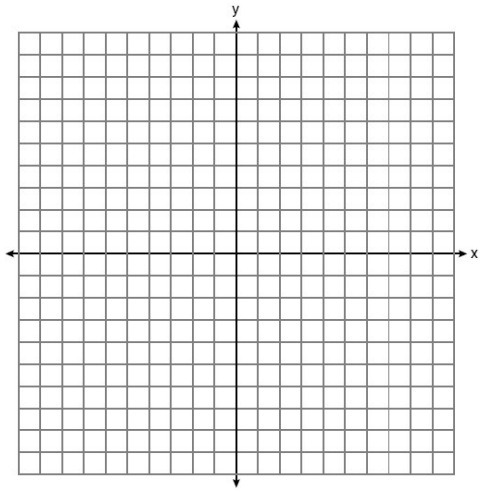
2. F(2,5) I(5,7) S(4,2) H(-2,-2).
Prove $\overline{FI} \parallel \overline{SH}$



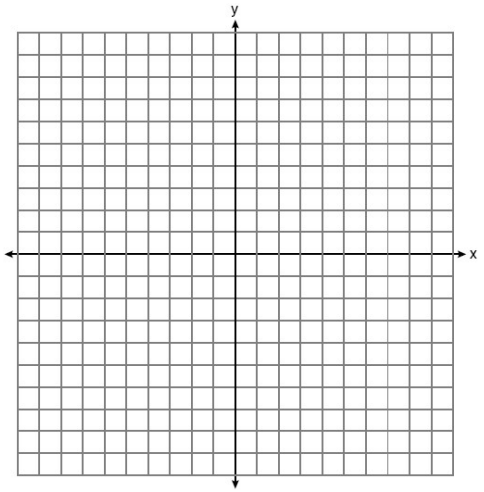
3. J(-1,3) O(3,1) S(3,-1) and E(5,-2).
Prove $\overline{JO} \parallel \overline{ES}$



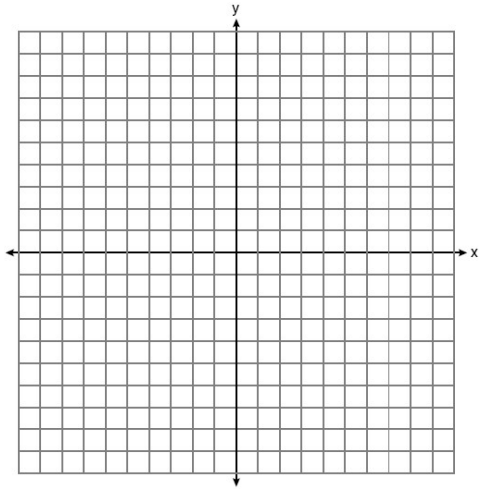
4. A(2,2) B(4,5) C(7,3)
Prove that $\overline{AB} \perp \overline{BC}$



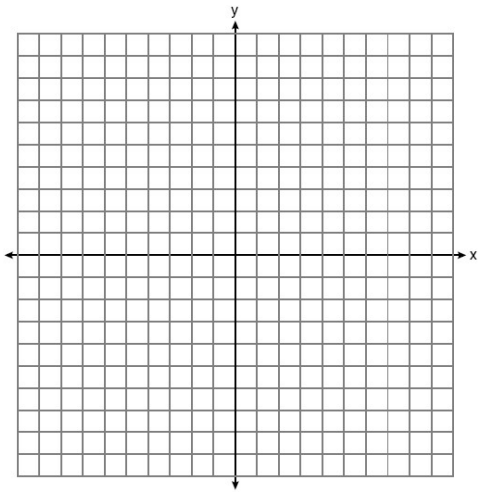
5. F(2,5) I(4,8), H(10,4).
Prove $\overline{FI} \perp \overline{IH}$



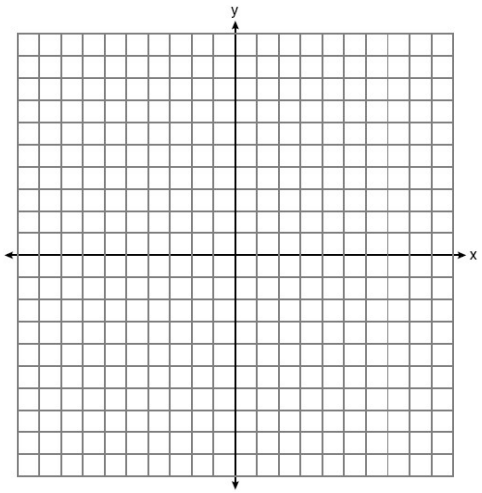
6. M(-3,-1), E(-5,-5), S(3,-9).
Prove $\overline{ME} \perp \overline{ES}$



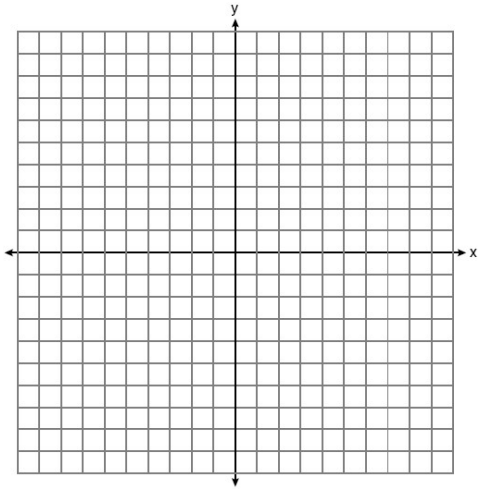
7. T(-8,8) A(8,-4) C(0,3) and O(-8,9).
Prove $\overline{AC} \parallel \overline{TO}$



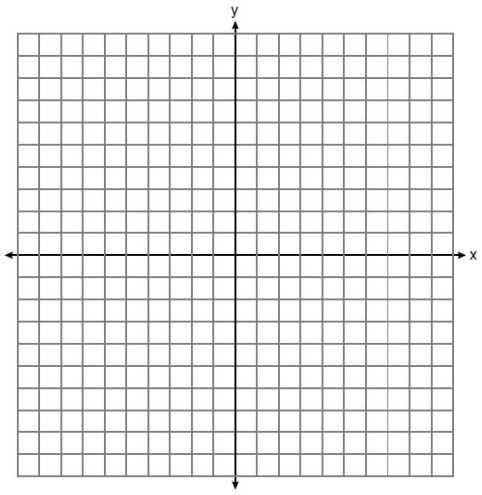
8. A(2,2), B(4,-2), C(9,1).
Prove $\overline{AB}$ *not* $\perp \overline{BC}$



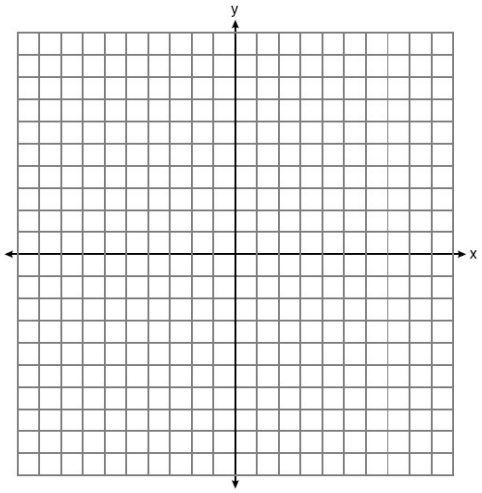
9. S(-9,-2), A(6, -8), B(8,2), R(-2,6)
Prove $\overline{SA} \parallel \overline{BR}$



10. M(-3,6), A(-9, -3), T(-6,-5).
Prove $\overline{MA} \perp \overline{AT}$



11. Q(-7,8), U(3,-4), I(6,-7), Z(1,0)
Prove $\overline{QU}$ *not* $\| \overline{IZ}$



12. J(-3,2), A(-5,-4), C(6,-7), L(7,-4)
Prove $\overline{JA} \| \overline{CL}$