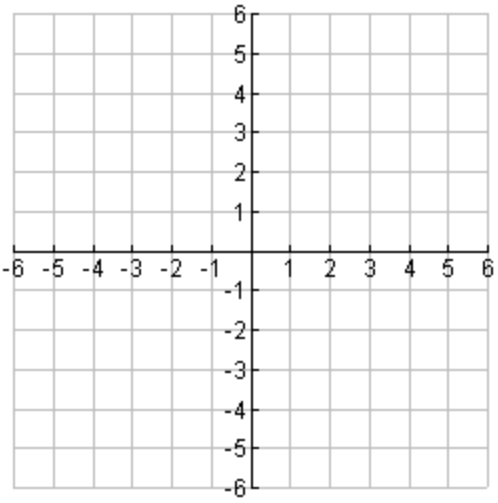
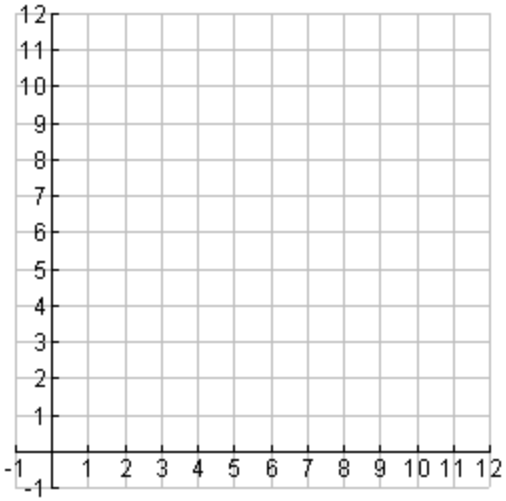
Review Coordinate Geometry Proofs

Name_____

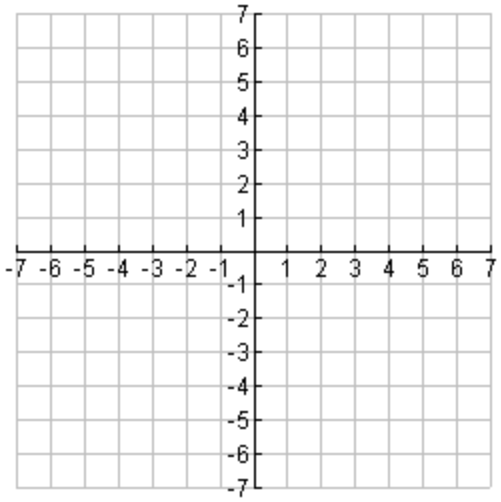
1. Using slope, show that quadrilateral $A(-5,-4)$, $B(1,-2)$ $C(2,3)$ and $D(-4,1)$ is a parallelogram.



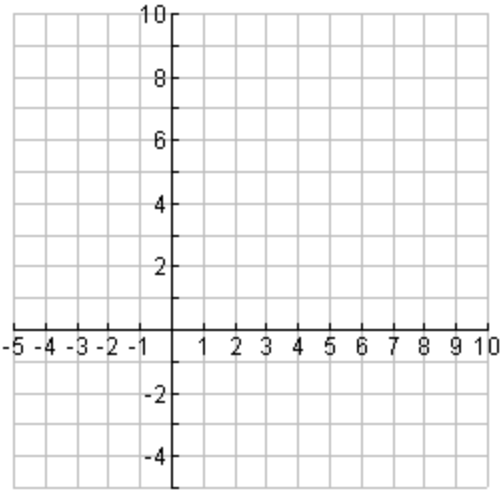
2. Using slope, show that $A(1,1)$, $B(10,4)$, and $C(7,7)$ are the vertices of a right triangle.



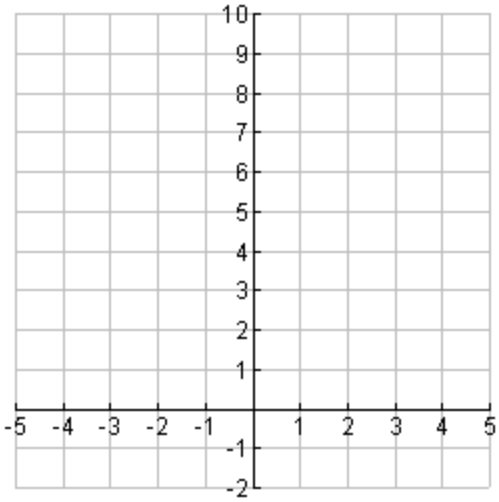
3. Using the midpoint formula, show that quadrilateral $A(2,4),\ B(-5,2),\ C(-2,-1)$ and $D(5,1)$ is a parallelogram.



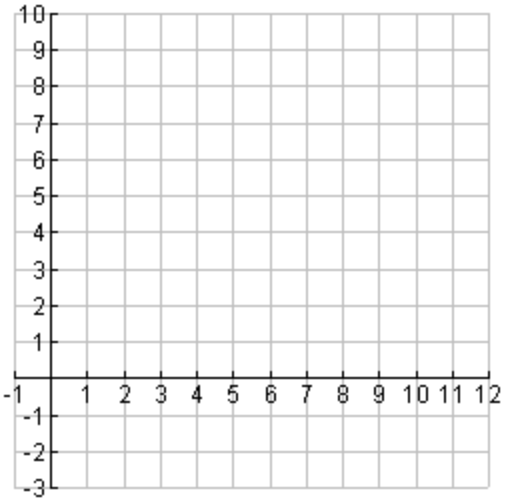
4. Using the distance formula, show that quadrilateral $A(-1,-3),\ B(4,2),\ C(3,9)$ and $D(-2,4)$ is a rhombus.



5. Using the distance formula, show that $A(-4,-1),\ B(-2,7)$, and $C(1,2)$ are the vertices of an isosceles right triangle.



6. Show that the quadrilateral $A(1,2)$, $B(10,5)$, $C(9,8)$, and $D(0,5)$ is a rectangle.



7. Show that the quadrilateral $A(0,-2)$, $B(9,1)$, $C(4,6)$, and $D(1,5)$ is an isosceles trapezoid.