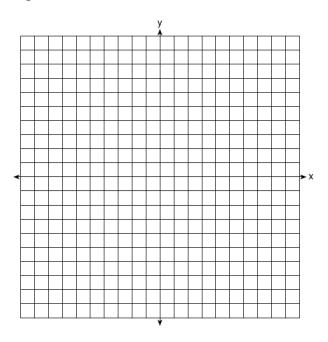
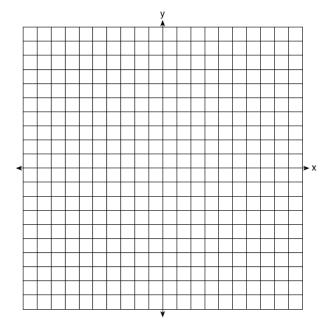
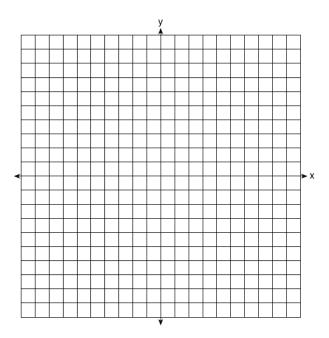
1) Prove that the quadrilateral whose vertices are the points A(-1,1), B(-3,4), C(1,5) and D(3,2) is a parallelogram.



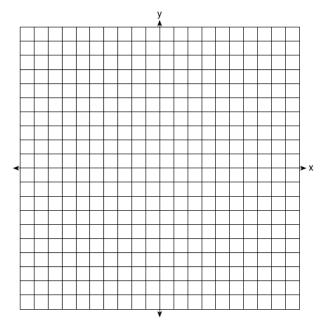
2) Quadrilateral DEFG has vertices at D(3,4), E(8,6), F(9,9) and G(4,7). Prove that DEFG is a parallelogram.



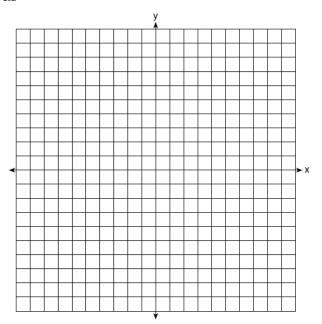
3) Quadrilateral ABCD has vertices A(2, 3), B(10, 3), C(10, -1), and D(2, -1). Prove quadrilateral ABCD is a rectangle



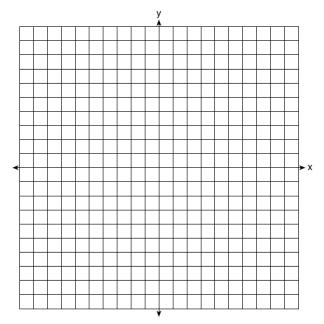
4) The coordinates of the vertices of quadrilateral ABCD are A(-3,-1), B(6,2), C(5,5), and D(-4, 2). Prove that quadrilateral ABCD is a rectangle.



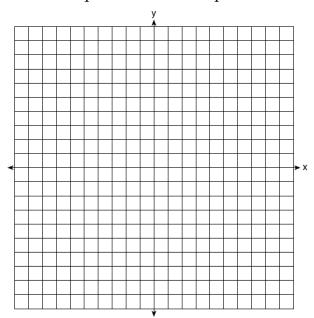
5) Quadrilateral QRST has vertices Q(6, 7), R(11, 7), S(8, 3), T(3, 3). Prove quadrilateral QRST is a rhombus



6) Quadrilateral RHOM has vertices R(-3,2), H(2,4), O(0,-1), and M(-5,-3). Using coordinate geometry, prove that RHOM is a rhombus.



7) The coordinates of the vertices of quadrilateral ABCD are A(4,1), B(1,5), C(-3,2) and D(0,-2). Prove the quadrilateral is a square.



8) Quadrilateral EFGH has vertices E(-7, 0), F(-2, 0), G(-2, -5), and H(-7, -5). Prove quadrilateral EFGH is a square.

