

Show all your calculations and explain how these calculations proved if the given coordinates made the specified shape.

1. Prove QRST is a parallelogram Q(-1, 4), R(1, 8), S(4, 2), T(2, -2)	2. Prove MNOP is a rectangle M(-6, 1), N(1, 4), O(3, -1), P(-4, -4)
3. Prove BOXI is a square B(0, 0), O(4, 3), X(7, -1), I(3, -4)	4. What are the coordinates of A that make ABCD a parallelogram? Justify your answer. A(?, ?), B(-2, -2), C(8, 5), D(5,6)
5. Prove $\Delta UUVW$ is isosceles. U(-4, 7), V(2, 5), W(-2, 1)	6. Prove ROMB is a rhombus R(-6, 7), O(2, 5), M(4, -3), B(-4, -1)