The vertices of \( \triangle ABC \) are each located in the first quadrant. Two of the vertices are \( A(2, 1) \) and \( B(5, 8) \). The third vertex, \( C \), has \( x \)-coordinate 1.

Two of the vertices, \( A \) and \( B \), are reflected in the \( y \)-axis and the third vertex, \( C \), is reflected in the \( x \)-axis. The three image points are collinear. That is, a straight line passes through the three image points.

Determine the coordinates of \( C \), the third vertex of the triangle.