Problem of the Week

Problem D

Reflect on This

\( \triangle ABC \) has vertices \( A(2, 1) \), \( B(5, 8) \), and \( C(1, c) \), where \( c > 0 \).

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

Determine the coordinates of \( C \).