[5 2 4] [0 2 3] is the data matrix for a triangle V in the plane with vertices (5, 0), (2, 2), and (4, 3).

A. Sketch a graph of V.

B. Give a 3 x 3 data matrix for V using homogeneous coordinates.

C. Give a 3 x 3 matrix which first reflects V through the line x1 = x2 then moves the reflected triangle one unit horizontally and two units vertically.

D. Sketch the image of V under this transformation.