## MORE PRACTICE - Transformations with Matrices



## The vertices of $\triangle$ ABC are (1, 5), B(4, 0), and (-1, -4).

If the triangle is reflected across the x-axis: 3a. What reflection matrix should be used? 3b. Write the vertices of the reflected triangle.

THEN the triangle from 3b is dilated by a factor of 2: 4. Write the vertices of the dilated triangle.

THEN the triangle from 4b is rotated 180°: 5a. What rotation matrix should be used? 5b. Write the vertices of the rotated triangle.

THEN triangle from 5b is moved right 2 and up 4:6a. What translation matrix should be used?6b. Write the vertices of the translated triangle.