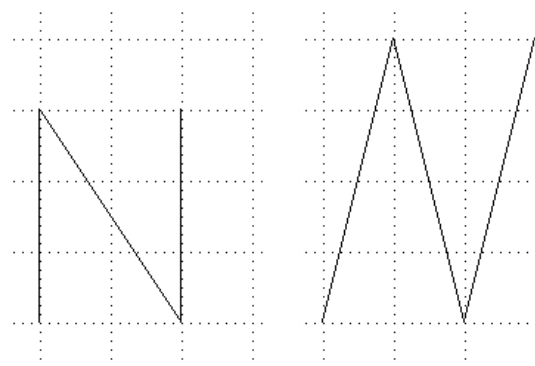


GETTING BACK TO THE N

Name _____



Suppose the “N” on the left is written in regular 12-point font. Find a matrix A that will transform N into the letter on the right, which is written in italics in 16-point font.

Last semester, two linear algebra students—Pat and Jamie—described their approach to the Italicizing N Task in the following way:

“In order to find the matrix A , we are going to find a matrix that makes the “N” taller (from 12-point to 16-point), find a matrix that italicizes the taller “N,” and the combination of those will be the desired matrix A .”

Consider the following new task:

Find a matrix C that will transform the letter on the right back into the letter on the left.

1. Find C using either your method or one of your classmate’s method for finding A
2. Find C using Pat and Jamie’s method for finding A .