

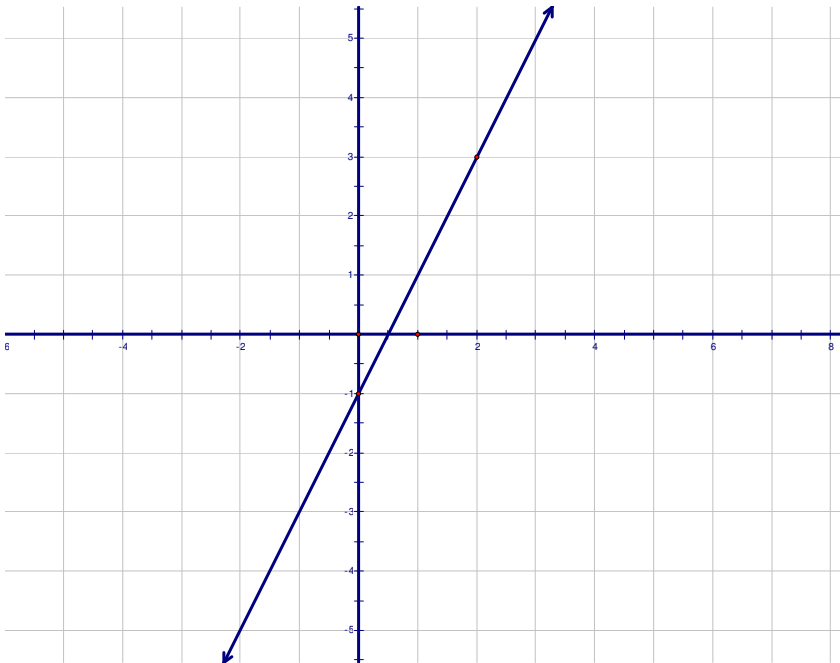
MATH 406 – Session 30

Specify a matrix for the transformation T_1 that is a translation through $(2, 1)$ followed by a reflection in the y -axis.

Describe, in words, T_1^{-1} the inverse of the transformation described above.

Specify a matrix for T_1^{-1} .

Find the image of the line $\begin{bmatrix} 2 & -1 & -1 \end{bmatrix} \begin{bmatrix} x \\ y \\ 1 \end{bmatrix} = 0$ under T_1 .



Show that distance is preserved under T_1 .

Show that area is preserved under T_1 .