Linear transformations with Matrices lesson 12 - Given the image, find the original point

Magic Monk Tutorials

1   **A point (x, y) has been reflected in the x axis with an image of $(2, 3)$. Find the original point (x, y)**

2   **A point (x, y) has been transformed under $T = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix}$ with an image of $(3, 2)$. Find the original point (x, y)**

3   **The line $y' = \dfrac{1}{2}x' + 2$ is the result of a transformation under the matrix $T = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix}$. Find the original line.**