Practice worksheet | Matrices and transformations

Inverse transformations

Name: _____ Date: _____

6 questions | 12 marks

1. Find the inverse of a dilation of factor 4 about the origin. [2 marks]

2. Find the inverse of $\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$. [2 marks]

3. Express $(ABC)^{-1}$ using inverse factors. [2 marks]

4. Find p if $2p + (3, 1) = (9, -3)$. [2 marks]

5. Why is reflection invertible but projection onto the same axis not? [2 marks]

6. Rotate $(3, 1)$ through 90° counterclockwise about $(1, 1)$. Find the image and inverse move. [2 marks]