Practice worksheet | Matrices and transformations

Rotations, reflections and dilations

Name: _____ Date: _____

6 questions | 12 marks

1. Give the matrix for reflection in the y-axis. [2 marks]

2. Rotate $(1, 2)$ through 90° clockwise. [2 marks]

3. Give the matrix for dilation of factor -2. [2 marks]

4. Reflect $(3, -1)$ in $y = x$. [2 marks]

5. Rotate $(2, 0)$ through 60° counterclockwise using exact values. [2 marks]

6. Describe the transformation $\begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$. [2 marks]